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Octavius Pickard-Cambridge, M.A., F.R.S., F.Z.S.

PROCEEDINGS

OF THE

DORSET NATURAL HISTORY

AND

ANTIQUARIAN FIELD CLUB

(From MAY, 1916, to MAY, 1917).

EDITED BY

J. M. J. FLETCHER.

VOLUME XXXVIII.

Dorchester:

PRINTED AT THE "DORSET COUNTY CHRONICLE" OFFICE.

1918



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RULES

OF

THE DORSET NATURAL HISTORY AND ANTIQUARIAN FIELD CLUB.

OBJECT AND CONSTITUTION.

1.—The Club shall be called The Dorset Natural History and Antiquarian Field Club, and shall have for a short title The Dorset Field Club.

The object of the Club is to promote and encourage an interest in the study of the Physical Sciences and Archæology generally, especially the Natural History of the County of Dorset and its Antiquities, Prehistoric records, and Ethnology. It shall use its influence to prevent, as far as possible, the extirpation of rare plants and animals, and to promote the preservation of the Antiquities of the County.

2.—The Club shall consist of (i.) three Officers, President, Honorary Secretary, and Honorary Treasurer, who shall be elected annually, and shall form the Executive body for its management: (ii.) Vice-Presidents, of whom the Honorary Secretary and Treasurer shall be two, *ex officio*; (iii.) The Honorary Editor of the Annual Volume of Proceedings: (iv.) Ordinary Members; (v.) Honorary Members. The President, Vice-Presidents, and Editor shall form a Council to decide questions referred to them by the Executive and to elect Honorary Members. The Editor shall be nominated by one of the incoming Executive and elected at the Annual Meeting.

There may also be one or more Honorary Assistant Secretaries, who shall be nominated by the Honorary Secretary, seconded by the President or Treasurer, and elected by the Members at the Annual Meeting.

Members may be appointed by the remaining Officers to fill interim vacancies in the Executive Body until the following Annual Meeting.

The number of the Club shall be limited to 400, power being reserved to the Council to select from the list of candidates persons, whose membership they may consider to be advantageous to the interests of the Club, to be additional Members.

PRESIDENT AND VICE-PRESIDENTS.

3.—The President shall take the chair at all Meetings, and have an original and a casting vote on all questions before the Meeting. In addition to the two *ex-officio* Vice-Presidents, at least three others shall be nominated by the President, or, in his absence, by the Chairman, and elected at the Annual Meeting.

HON. SECRETARY.

4.—The Secretary shall perform all the usual secretarial work; cause a programme of each Meeting to be sent to every Member seven days at least before such Meeting; make all preparations for carrying out Meetings and, with or without the help of a paid Assistant Secretary or others, conduct all Field Meetings. On any question arising between the Secretary (or Acting Secretary) and a Member at a Field Meeting, the decision of the Secretary shall be final.

The Secretary shall receive from each Member his or her share of the day's expenses, and thereout defray all incidental costs and charges of the Meeting, rendering an account of the same before the Annual Meeting to the Treasurer; any surplus of such collection shall form part of the General Fund, and any deficit be defrayed out of that Fund.

HON. TREASURER.

5.—The Treasurer shall keep an account of Subscriptions and all other moneys of the Club received and of all Disbursements, rendering at the Annual General Meeting a balance sheet of the same, as well as a general statement of the Club's finances. He shall send copies of the Annual Volume of Proceedings for each year to Ordinary Members who have paid their subscriptions for that year (as nearly as may be possible, in the order of such payment), to Honorary Members, and to such Societies and individuals as the Club may, from time to time, appoint to receive them. He shall also furnish a list at each Annual Meeting, containing the names of all Members in arrear, with the amount of their indebtedness to the Club. He shall also give notice of their election to all New Members.

ORDINARY MEMBERS.

6.—Ordinary Members are entitled to be present and take part in the Club's proceedings at all Meetings, and to receive the published "Proceedings" of the Club, when issued, for the year for which their subscription has been paid.

7.—Every candidate for admission shall be nominated in writing by one Member and seconded by another, to both of whom he must be personally known. He may be proposed at any Meeting, and his name shall appear in the programme of the first following Meeting at which a Ballot is held, when he shall be elected by ballot, one black ball in six to exclude. Twelve Members shall form a quorum for the purpose of election. A Ballot shall be held at the Annual and Winter Meetings, and may be held at any other Meeting, should the Executive so decide, notice being given in the programme. In the event of the number of vacancies being less than the number of candidates at four successive Meetings, the names of any candidates proposed at the first of such Meetings who have not been elected at one of them shall be withdrawn, and shall not be eligible to be again proposed for election for at least a year after such withdrawal. Provided that if at any Meeting there shall be no vacancies available, it shall not be counted in estimating the above named four Meetings.

8.—The Annual Subscription shall be 10s., which shall become due and payable in advance on the 1st of January in each year. Subscriptions paid on election after September in each year shall be considered as subscriptions for the following year, unless otherwise agreed upon by such Member and the Treasurer. Every Member shall pay immediately after his election the sum of ten shillings as Entrance Fee, in addition to his first Annual Subscription.

9.—No person elected a Member shall be entitled to exercise any privilege as such until he has paid his Entrance Fee and first Subscription, and no Member shall be entitled to receive a copy of the "Proceedings" for any year until his Subscription for that year has been paid.

10.—A registered letter shall be sent by the Hon. Treasurer to any Member whose Subscription is in arrear at the date of any Annual Meeting, demanding payment within 28 days, failing which he shall cease to be a Member of the Club, but shall, nevertheless, be liable for the arrears then due.

11.—Members desiring to leave the Club shall give notice of the same in writing to the Treasurer (or Secretary), but, unless such notice is given before the end of January in any year, they shall be liable to pay the Annual Subscription due to the Club on and after January 1st in that year.

HONORARY MEMBERS.

12.—Honorary Members shall consist of persons eminent for scientific or natural history attainments, and shall be elected by the Council. They pay no subscription, and have all the privileges of Ordinary Members, except voting.

MEETINGS.

13.—The Annual General Meeting shall be held as near the first week in May as may be convenient; to receive the outgoing President's Address (if any) and the Treasurer's financial report; to elect the Officers and Editor for the ensuing year; to determine the number (which shall usually be three or four), dates, and places of Field Meetings during the ensuing summer, and for general purposes.

14.—Two Winter Meetings shall usually be held in or about the months of December and February for the exhibition of Objects of Interest (to which not more than one hour of the time before the reading of the Papers shall be devoted), for the reading and discussion of Papers, and for general purposes.

The Dates and Places of the Winter and Annual Meetings shall be decided by the Executive.

15.—A Member may bring Friends to the Meetings subject to the following restrictions:—No person (except the husband, wife, or child of a Member), may attend the Meeting unaccompanied by the Member introducing him, unless such Member be prevented from attending by illness, and no Member may take with him to a *Field Meeting* more than one Friend, whose name and address must be submitted to the Hon. Secretary and approved by him or the Executive.

The above restrictions do not apply to the Executive or to the Acting Secretary at the Meeting.

16.—Members must give due notice (with prepayment of expenses) to the Hon. Secretary of their intention to be present, with or without a Friend, at any Field Meeting, in return for which the Secretary shall send to the Member a card of admission to the Meeting, to be produced when required. Any Member who, having given such notice, fails to attend, will be liable only for any expenses actually incurred on his account, and any balance will be returned to him on application. The sum of 1s., or such other amount as the Hon. Secretary may consider necessary, shall be charged to each person attending a Field Meeting, for Incidental Expenses.

17.—The Executive may at any time call a Special General Meeting of the Members upon their own initiative or upon a written requisition (signed by Eight Members) being sent to the Honorary Secretary. Any proposition to be submitted shall be stated in the Notice, which shall be sent to each Member of the Club not later than seven days before the Meeting.

PAPERS.

18.—Notice shall be given to the Secretary, a convenient time before each Meeting, of any motion to be made or any Paper or communication desired to be read, with its title and a short sketch of its scope or contents. The insertion of these in the Programme is subject to the consent of the Executive.

19.—The Publications of the Club shall be in the hands of the Executive, who shall appoint annually Three or more Ordinary Members to form with them and the Editor a Publication Committee for the purpose of deciding upon the contents of the Annual Volume. These contents shall consist of original papers and communications written for the Club, and either read, or accepted as read, at a General Meeting; also of the Secretary's Reports of Meetings, the Treasurer's Financial Statement and Balance Sheet, a list to date of all Members of the Club, and of those elected in the current or previous year, with the names of their proposers and seconders. The Annual Volume shall be edited by the Editor subject to the direction of the Publication Committee.

20.—Twenty-five copies of his paper shall be presented to each author whose communication shall appear in the volume as a separate article, on notice being given by him to the Publisher to that effect.

THE AFFILIATION OF SOCIETIES AND LIBRARIES TO THE CLUB.

21.—Any Natural History or Antiquarian Society in the County may be affiliated to the Dorset Field Club on payment of an annual fee of Ten Shillings, in return for which the annual volume of the Proceedings of the Field Club shall be sent to such Society.

Every affiliated Society shall send the programme of its Meetings to the Hon. Secretary of the Field Club, and shall also report any discoveries of exceptional interest. And the Field Club shall send its programme to the Hon. Secretary of each affiliated Society.

The Members of the Field Club shall not be eligible, *ipso facto*, to attend any Meetings of affiliated Societies, and the Members of any affiliated Society shall not be eligible, *ipso facto*, to attend any Meetings of the Field Club. But any Member of an affiliated Society shall be eligible to read a paper or make an exhibit at the Winter Meetings of the Field Club at Dorchester.

Any Public Library, or Club, or School or College Library, in England or elsewhere, may be affiliated to the Dorset Field Club on payment of an annual fee of Ten Shillings, in return for which the annual volume of the Proceedings of the Field Club shall be sent to such Library.

SECTIONAL COMMITTEES.

22.—Small Committees may be appointed at the Annual General Meeting to report to the Club any interesting facts or discoveries relating to the various sections which they represent ; and the Committee of each section may elect one of their Members as a Corresponding Secretary.

NEW RULES.

23.—No alteration in or addition to these Rules shall be made except with the consent of a majority of three-fourths of the Members present at the Annual General Meeting, full notice of the proposed alteration or addition having been given both in the current Programme and in that of the previous Meeting.



The Dorset Natural History and Antiquarian Field Club.

INAUGURATED MARCH 26th, 1875.

President :

NELSON M. RICHARDSON, Esq., B.A.

Vice-Presidents :

THE LORD EUSTACE CECIL, F.R.G.S. (*Past President*).

THE REV. HERBERT PENTIN, M.A. (*Hon. Secretary*).

CAPTAIN JOHN E. ACLAND, M.A., F.S.A. (*Hon. Treasurer*).

CAPTAIN G. R. ELWES, J.P.

THE REV. CANON J. C. M. MANSEL-PLEYDELL, M.A.

THE REV. CANON MAYO, M.A. (*Dorset Editor of "Somerset and Dorset Notes and Queries"*).

THE EARL OF MORAY, M.A., F.S.A. Scot., F.G.S.

SIR DANIEL MORRIS, K.C.M.G., D.Sc., D.C.L., F.L.S.

ALFRED POPE, Esq., F.S.A.

E. R. SYKES, Esq., B.A., F.Z.S. (*Past Pres. Malacological Society*).

HENRY SYMONDS, Esq., F.S.A.

HIS HONOUR J. S. UDAL, F.S.A.

Executive Body :

NELSON M. RICHARDSON, Esq., B.A. (*President*).

The Rev. HERBERT PENTIN, M.A. (*Hon. Secretary*), St. Peter's Vicarage, Portland

Captain JOHN E. ACLAND, M.A., F.S.A. (*Hon. Treasurer*), Wollaston House, Dorchester.

Hon. Editor :

The Rev. Canon J. M. J. FLETCHER, M.A., The Vicarage, Wimborne Minster.

Publication Committee :

The EXECUTIVE, The HON. EDITOR, H. B. MIDDLETON, Esq.,
and E. R. SYKES, Esq.

Sectional Committees :

Dorset Photographic Survey—

The MEMBERS of the EXECUTIVE

BODY *ex officio*

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(*Corresponding Secretary*)

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R. HINE, Esq.

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W. B. WILDMAN, Esq., M.A.

The Rev. A. C. WOODHOUSE

List of Members

OF THE

Dorset Natural History and Antiquarian Field Club

FOR THE YEAR 1917.

Honorary Members :

Year of

Election. (The initials "O.M." signify "Original Member.")

- O.M.** W. CARRUTHERS, Esq., Ph.D., F.R.S., F.G.S., F.L.S., British Museum
(Nat. Hist.), South Kensington.
- 1889 A. M. WALLIS, Esq., 29, Mallams, Portland.
- 1900 A. SMITH WOODWARD, Esq., LL.D., F.R.S., F.G.S., British Museum (Nat.
Hist.), South Kensington, London.
- 1904 Sir WM. THISELTON DYER, K.C.M.G., C.I.E., LL.D., Sc.D., Ph.D.,
F.R.S., The Ferns, Witcombe, Gloucester.
- 1904 Sir FREDERICK TREVES, Bart., G.C.V.O., C.B., LL.D., Thatched House
Lodge, Richmond Park, Kingston-on-Thames.
- 1908 THOMAS HARDY, Esq., O.M., D. Litt., LL.D., Max Gate, Dorchester.

Members :

- 1903 The Most Hon. the Marquis of
Salisbury, M.A., C.B. The Manor House, Cranborne
- 1903 The Most Hon. the Marchioness
of Salisbury The Manor House, Cranborne
- O.M.** The Right Hon. the Earl of
Moray, M.A., F.S.A. Scot.,
F.G.S. (*Vice-President*) Kinfauns Castle, Perth, N.B

- 1911 The Right Hon. the Earl of Ilchester Melbury, Dorchester
- 1902 The Right Hon. the Earl of Shaftesbury, K.C.V.O. St. Giles, Wimborne
- 1884 The Right Hon. Lord Eustace Cecil, F.R.G.S. (*Vice-President*) Lytchett Heath, Poole
- 1903 The Right Hon. Lady Eustace Cecil Lytchett Heath, Poole
- 1904 The Right Rev. the Lord Bishop of Durham, D.D. Auckland Castle, Bishop's Auckland
- 1892 The Right Rev. the Lord Bishop of Worcester, D.D., F.S.A. Hartlebury Castle, Kidderminster
- 1889 The Right Hon. Lord Digby Minterne, Dorchester
- 1907 The Right Hon. Lord Wynford Warmwell House, Dorchester
- 1907 The Right Hon. Lady Wynford Warmwell House, Dorchester
- 1910 Abbott, F. E., Esq. Shortwood, Christchurch, Hants
- 1893 Acland, Captain John E., M.A., F.S.A. (*Vice-President and Hon. Treasurer*) Wollaston House, Dorchester
- 1892 Acton, Rev. Edward, M.A. Wolverton Rectory, Basingstoke
- 1907 Allner, Mrs. George National Provincial Bank, Sturminster Newton
- 1908 Almack, Rev. A. C., M.A. The Rectory, Blandford St. Mary
- 1907 Atkinson, George T., Esq., M.A. Durlston Court, Swanage
- 1902 Baker, Sir Randolph L., Bart., M.P. Ranston, Blandford
- 1912 Baker, Rev. E. W., B.A. The Rectory, Witchampton
- 1906 Bankes, Mrs. Kingston Lacy, Wimborne
- 1912 Bankes, Jerome N., Esq., F.S.A. 63, Redcliffe Gardens, London, S.W.
- 1902 Barkworth, Edmund, Esq. Hillymead, Seaton
- 1904 Barlow, Major C. M. Southcot, Charminster
- 1894 Barnes, Mrs. John Iles Blandford
- 1917 Barrett, W. E. Cowdell, Esq., M.A., LL.M. The Cottage, Weymouth
- 1906 Barrow, Richard, Esq. Sorrento House, Sandecotes, Parkstone
- 1895 Bartelot, Rev. R. Grosvenor, M.A. Fordington St. George Vicarage, Dorchester
- 1904 Baskett, Mrs. S. R. Southfield, Alexandra Road, Weymouth.
- 1913 Bassett, Rev. H. H. Tilney, R.D. (*Hon. Editor of the Dorset Rainfall Reports*) Whitchurch, Vicarage, Blandford
- 1917 Beament, W. O., Esq., B.A. Beaminster

1888	Beckford, F. J., Esq.	Witley, Parkstone
1908	Benett-Stanford, Major J., F.R.G.S., F.Z.S.	Hatch House, Tisbury, Wilts
1910	Blackett, Rev. J. C., B.A.	Compton Rectory, Winchester
1917	Blathwayt, Rev. F. L., M.A., M.B.O.U.	Melbury Osmond Rectory, Dorchester
1903	Bond, Gerald Denis, Esq.	Holme, Wareham
1906	Bond, Nigel de M., Esq., M.A.	Hasler House, Crowborough, Sussex
1903	Bond, Wm. Ralph G., Esq.	Tyneham, Wareham
1913	Bone, Clement G., Esq., M.A.	6, Lennox Street, Weymouth
1889	Bower, H. Syndercombe, Esq.	Fontmell Parva, Shillingstone, Bland- ford
1900	Bower, Rev. Charles H. S., M.A.	Childe Okeford Rectory, Shillingstone, Dorset
1898	Brandreth, Rev. F. W., M.A.	Buckland Newton, Dorchester
1901	Brennand, John, Esq.	Innisfallen, Rossmore Avenue, Park- stone
1895	Brymer, Rev. J. G., M.A.	Ilsington House, Puddletown
1907	Bulfin, Ignatius, Esq., B.A.	The Den, Knole Road, Bournemouth
1900	Bullen, Colonel John Bullen Symes	Catherston Leweston, near Charmouth
1907	Bury, Mrs. Henry	Mayfield House, Farnham, Surrey
1905	Busk, W. G., Esq.	Wraxall Manor, Cattistock, Dor- chester
1905	Busk, Mrs. W. G.	Wraxall Manor, Cattistock, Dor- chester
1903	Butler-Bowden, Mrs. Bruno	Upwey House, Upwey
1911	Butlin, M. C., Esq., M.A.	7, Westerhall Road, Weymouth
1891	Carter, William, Esq.	The Hermitage, Parkstone
1905	Chadwyck-Healey, Sir C. E. H., M.A., K.C., K.C.B., F.S.A.	Wyphurst, Cranleigh, Surrey
1913	Champ, Miss Edith	St. Katherine's, Bridport
1894	Church, Colonel Arthur	St. Alban's, Rodwell, Weymouth
1904	Clapcott, Miss	The Cottage, Bradford Peverell, Dor- chester
1905	Clark, Mrs. E. S.	St. Aldhelm's, Wareham
1895	Clarke, R. Stanley, Esq.	Trobridge House, Crediton, Devon
1912	Clift, J. G. Neilson, Esq.	8, Prince's Street, Westminster, S.W.
1883	Colfox, Miss A. L.	Westmead, Bndport

- 1878 Colfox, Colonel T. A. Coneygar, Bridport
 1905 Collins, Sir Stephen, M.P. Elm House, Tring, Hertfordshire
 1904 Collins, Wm. W., Esq., R.I. Stoborough Croft, Wareham
 1905 Colville, H. K., Esq. North Cerney House, Cirencester
 1912 Cooke, Rev. J. H., M.A.,
 L.L.D. Shillingstone Rectory
 1903 Cornish-Browne, C. J., Esq. Coryton Park, Axminster
 1891 Cother, Rev. P. L., M.A. 1, Clearmount, Weymouth
 1909 Crickmay, Harry W., Esq. 49, St. Mary Street, Weymouth
 1884 Cross, Rev. James, M.A. Baillie House, Sturminster Marshall,
 Wimborne
 1914 Cross, Miss Florence Stock Gaylard Rectory, Sturminster
 Newton
 1885 Curme, Decimus, Esq.,
 M.R.C.S. Balma Howe, Terrace Mount, Bourne-
 mouth
 1896 Curtis, C. H., Esq. Blandford
 1897 Curtis, Wilfrid Parkinson, Esq.,
 F.E.S. (*Hon. Editor of the*
Dorset Phenological Report) Aysgarth, Longfleet, Poole
 1903 Dacombe, J. M. J., Esq. 27, Holdenhurst Road, Bournemouth
 1914 Dalton, Mrs. E. E. Cerne Abbas, Dorchester
 1907 Daniell, G. H. S., Esq., M.B. Brentry, Blandford
 1904 Davies, Rev. Canon S. E., M.A. Wyke Regis Rectory, Weymouth
 1894 Davis, Geo., Esq. West Lodge, Icen Way, Dorchester
 1904 Deane, Mrs. A. M. Badbury, Park Road, Bournemouth
 1910 Devenish, Major J. H. C. Springfield, Weymouth
 1907 Dicker, Miss Eleanor H. Brook House, Upwey, Dorchester
 1912 Dickson, Colonel W. D. Southill, Dean Park, Bournemouth
 1912 Dickson, Mrs. W. D. Southill, Dean Park, Bournemouth
 1911 Dillon-Trenchard, Miss Margaret The Ridge, Durlston Park Road,
 Swanage
 1908 Dominy, G. H., Esq., M.R.C.S.,
 L.R.C.P. Milton Abbas, Blandford
 1912 Dru Drury, G., Esq., M.R.C.S.,
 L.R.C.P. Corfe Castle, Wareham
 1904 Dugdale, J. B., Esq. Sandford, Wareham
 1905 Duke, Mrs. Henry Manor House, Godmanstone, Dor-
 chester
 1907 Duke, Miss M. Constance The Limes, Dorchester
 1908 Duke, Mrs. E. Barnaby Maen, Dorchester
 1896 Dundas, Ven. Archdeacon, M.A. The Canonry, Salisbury
 1910 Eaton, Rev. A. E., M.A., F.E.S. Richmond Villa, Northam, North
 Devon

1913	Edwards, Aubrey, Esq.	The Pinetum, Wellington Road, Parkstone
1916	Edwards, The Rev. R. D. St. G., M.A.	Longbredy Rectory, Dorchester
1913	Ellis, Henry, Esq., F.R.A.S.	Boat Close, Lyme Regis
1885	Elwes, Captain G. R. (<i>Vice-President</i>)	Bossington, Bournemouth
1913	Facey, C. S., Esq., M.B.	The Elms, Chickereil, near Weymouth
1886	Falkner, C. G., Esq., M.A.	Ireton Bank, Rusholme, Manchester
1884	Farley, Rev. H., M.A.	Overbury Road, Parkstone
1903	Farrer, Colonel Philip	Binnegar Hall, Wareham
1912	Ferguson, Miss E. M.	Elwell Lea, Upwey, Dorchester
1912	Ferguson, Miss Constance	Elwell Lea, Upwey, Dorchester
1904	Ffooks, Mrs. E. Archdall	Kingscote, Dorchester
1904	Fielding, Thos., Esq., M.D.	Halford House, West Hill Road, Bournemouth
1892	Filleul, Rev. S. E. V., M.A.	All Saints' Rectory, Dorchester
1896	Filliter, Rev. W. D., M.A.	East Lulworth Vicarage, Wareham
1910	Filliter, Mrs. W. D.	East Lulworth Vicarage, Wareham
1911	Fisher, Rev. J. Martyn, M.A.	St. Paul's Vicarage, Weymouth
1890	Fletcher, W. H. B., Esq.	Aldwick Manor, Bognor, Sussex
1907	Fletcher, Rev. Canon J. M. J., M.A., R.D. (<i>Hon. Editor</i>)	The Vicarage, Wimborne Minster
1914	Fletcher, Walter T., Esq.	Icen Way, Dorchester
1885	Floyer, G. W., Esq., B.A.	West Stafford, Dorchester
1895	Forbes, Mrs.	Culverhayes, Shillingstone, Blandford
1897	Forde, Henry, Esq.	Luscombe, Parkstone
1910	Forder, B. C., Esq.	Whatcombe, Blandford
1893	Forrester, Mrs. James	Westport, Wareham
1910	Freame, Major B. E.	The Chantry, Gillingham
1895	Fry, Edward Alexander, Esq.	Thornhill, Kenley, Surrey
1903	Fry, George S., Esq.	Chesham, The Grove, Nether Street, Finchley, London, N.
1896	George, Mrs.	Fleet House, near Weymouth
1916	Gill, Macdonald, Esq.	Tonerspuddle
1890	Glyn, Captain Carr Stuart	Wood Leaze, Wimborne
1912	Glyn, Mrs. Carr	Wood Leaze, Wimborne
O.M.	Glyn, Sir R. G., Bart.	Gaunts House, Wimborne
1895	Godman, F. du Cane, Esq., F.R.S.	Lower Beeding, Horsham

1906	Gowring, Mrs. E. W.	49, High West Street, Dorchester
1888	Greves, Hyla, Esq., M.D.	Rodney House, Bournemouth
1904	Groves, Major Herbert J.,	Clifton, Weymouth
1906	Groves, Miss S. J.	Thickthorne, Broadwey, Dorset
1912	Groves, Miss	Blackdown, Weymouth
1906	Gundry, Joseph, Esq.	Red House, Queen's Avenue, Dorchester
1896	Haggard, Rev. H. A., M.A.	Molash Vicarage, Canterbury
1912	Haines, F. H., Esq., M.R.C.S., L.R.C.P.	Winfrith, Dorchester
1903	Hambro, Sir Everard, K.C.V.O.	Milton Abbey, Dorset
1913	Hamilton, Miss	Affpuddle Vicarage, Dorchester
1893	Hankey, Rev. Canon, M.A.	Lambert House, Dorchester
1910	Harbin, Rev. Prebendary E. H. Bates, M.A.	Newton Surmaville, Yeovil
1894	Hawkins, W., Esq., M.R.C.S.	Hillfield, Broadwey, Dorchester
1903	Hawkins, Miss Isabel	Ryme, Elwell Street, Upwey
1903	Hawkins, Rev. H.	1, Westerhall, Weymouth
1893	Hayne, R., Esq.	Spring Bottom, Osmington
1905	Heath, F. R., Esq.	The Woodlands, Weymouth
1911	Hellins, Rev. E. W. J., M.A., LL.B.	Marnhull Rectory, Dorset
1911	Hellins, Mrs. E. W. J.	Marnhull Rectory, Dorset
1899	Henning, Mrs.	Frome House, Dorchester
1913	Hewgill, Chas. W., Esq.	Encombe, Dorchester
1912	Hichens, Mrs. T. S.	Flamberts, Trent, Sherborne
1910	Hill, Miss Pearson	Rax, Bridport
1902	Hine, R., Esq.	Beaminster
1902	Homer, Miss E. C. Wood	Bardolf Manor, Puddletown
1907	Homer, Mrs. G. Wood	Bardolf Manor, Puddletown
1888	Huntley, H. E., Esq.	Charlton House, Blandford
1903	Jenkins, Rev. T. Leonard, M.A.	Leigh Vicarage, Sherborne
1912	Jordan, Miss	The Ridge, Durlston Park Road, Swanage
1915	Kentish, G. C. A., Esq.	Longcroft, Windsor Road, Parkstone
1895	Lafontaine, A. C. de, Esq., F.S.A.	Athelhampton, Dorchester
1876	Langford, Rev. Canon, M.A.	Southbrook, Starcross, S. Devon
1907	Lees, Rear-Admiral Edgar, R.N.	White Cross, Wyke Regis
1907	Lees, Mrs. Edgar	White Cross, Wyke Regis
1910	Le Fleming, E. K., Esq., B.A., M.B.	St. Margaret's, Wimborne
1900	Legge, Miss Jane	Allington Villa, Bridport
1902	Lewis, Rev. A., M.A.	Chardstock Vicarage, Chard

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|------|---|--|
| 1890 | Lister, Miss Gulielma, F.L.S. | High Cliff, Lyme Regis |
| 1905 | Llewellyn, W., Esq., M.A. | Upton House, Poole |
| 1892 | Lock, His Honour Judge
B. Fossett | The Toft, Bridlington, East Yorks |
| 1911 | Long, Rev. H. R., B.A. | Tolpuddle, Dorchester |
| 1910 | MacCormick, Rev. F. H. J.,
F.S.A. Scot., M.R.A.S. | Wrockwardine Wood Rectory, Wel-
lington, Salop |
| 1888 | MacDonald, P. W., Esq., M.D. | Grasmere, Spa Road, Weymouth |
| 1902 | Mainwaring, Lieut.-Col. F. G. L. | Wabey House, Upwey |
| 1899 | Mansel-Pleydell, Rev. Canon
J. C. M., M.A. (<i>Vice-
President</i>) | 10, Clarence Terrace, Regent's Park,
London, N.W. |
| 1883 | Marriott, Sir W. Smith, Bart. | The Down House, Blandford |
| 1904 | Marsh, J. L., Esq. | White Cliff Mill Street, Blandford |
| 1907 | Mate, C. H., Esq. | Elim, Surrey Road South, Bourne-
mouth |
| 1879 | Maunsell, Rev. F. W., M.A. | Lansdowne Villa, Weymouth |
| O.M. | Mayo, Rev. Canon, M.A.,
(<i>Vice-President</i>) | Gillingham, Dorset |
| 1912 | McDowall, A. S., Esq., M.A. | Warmwell Mill House, Dorchester |
| 1914 | Mead, Colonel | Chescombe House, near Blandford |
| O.M. | Middleton, H. B., Esq., M.A. | Bradford Peverell, Dorchester |
| 1890 | Milne, Rev. Percy H., M.A. | Hornblotton Rectory, Castle Cary |
| 1905 | Morgan, Mrs. | The Vicarage, Yetminster |
| 1911 | Morris, Sir Daniel, K.C.M.G.,
D.Sc., D.C.L., F.L.S. (<i>Vice-
President</i>) | 14, Crabton Close, Boscombe |
| 1914 | Moule, Rev. A. C., B.A. | Brent Knoll, Somerset |
| 1897 | Moullin, Arthur D., Esq. | Fermain, Cranbourne Road, Swanage |
| 1905 | Nicholson, Captain Hugh | Nettlecombe, Melplash |
| 1906 | Oke, A. W., Esq., B.A., LL.M.,
F.S.A., F.G.S. | 32, Denmark Villas, Hove, Sussex |
| 1886 | Okeden, Colonel U. E. Parry | Turnworth, Blandford |
| 1908 | Oliver, Vere L., Esq. | Whitmore Lodge, Sunninghill, Berks |
| 1908 | Oliver, Mrs. Vere L. | Whitmore Lodge, Sunninghill, Berks |
| 1904 | Oliver, Weston, Esq., M.A. | Castle House, Weymouth |
| 1908 | Ord, W. T., Esq., M.R.C.S.,
L.R.C.P., F.G.S. | Greensted, 14, Madeira Road, Bourne-
mouth |
| 1911 | Oules, W. W., Esq., R.A. | 12, Bryanston Square, London, W. |
| 1911 | Oules, Miss Catherine | 12, Bryanston Square, London, W. |
| 1914 | Pass, Alfred Douglas, Esq. | Wootton Fitzpaine, Charmouth |

1890	Patey, Miss	185, Oakwood Court, Kensington, London, W.
1908	Patterson, Mrs. Myles	Conygar, Broadmayne, Dorchester
1907	Paul, Edward Clifford, Esq., M.A.	Eastbrook House, Upwey
1894	Payne, Miss Florence O.	Rydal, Wimborne
1906	Pearce, Mrs. Thos. A.	Ivythorpe, Dorchester
1909	Pearce, Edwin, Esq.	Fore Street, Taunton
1901	Peck, Gerald R., Esq.	Muston Manor, Puddletown
1894	Penny-Snook, S., Esq., M.R.C.S., L.R.C.P.	Netherton House, Weymouth
1907	Penny-Snook, Mrs. S.	Netherton House, Weymouth
1901	Pentin, Rev. Herbert, M.A. (<i>Vice-President and Hon. Secretary</i>)	St. Peter's Vicarage, Portland
1894	Peto, Sir Henry, Bart.	Chedington Court, Misterton, Somers- et
1896	Phillips, Miss	Walton House, Bournemouth
1908	Phillips, Rev. C. A., M.A.	Walton House, Bournemouth
1898	Pickard-Cambridge, A. W., Esq., M.A.	St. Catherine's, Headington Hill, Ox- ford
1908	Pickard-Cambridge, Miss Catherine	Picardy, Rodwell, Weymouth
1903	Pike, Leonard G., Esq.	Kingbarrow, Wareham
1903	Pitt-Rivers, A. L. Fox, Esq., F.S.A.	Rushmore, Salisbury
1904	Plowman, Rev. L. S.	Ibberton Rectory, Blandford
1896	Pond, S., Esq.	Blandford
1894	Ponting, Chas. E., Esq., F.S.A.	Wye House, Marlborough
O.X.	Pope, Alfred, Esq., F.S.A. (<i>Vice- President</i>)	South Court, Dorchester
1906	Pope, Major Alfred Rolph, M.A.	Culliford House, Dorchester
1906	Pope, Mrs. Alfred Rolph	Culliford House, Dorchester
1909	Pope, Francis J., Esq., F.R.Hist.S.	17, Holland Road, London, W.
1914	Powell, H. Bolland, Esq., A.M.I.C.E.	Hillsdon, Springfield Road, Parkstone
1896	Prideaux, C. S., Esq., L.D.S.	Ermington, Dorchester
1900	Prideaux, W. de C., Esq., L.D.S., F.S.A., F.R.S.M.	12, Frederick Place, Weymouth
1905	Pringle, Henry T., Esq., M.D.	Ferndown, Wimborne
1905	Pringle, Mrs. Henry T.	Ferndown, Wimborne
1888	Pye, William, Esq.	Dunmore, Rodwell, Weymouth

1905	Ramsden, Mrs.	The Dower House, Lew Trenchard, Devon
1912	Rawlence, E. A., Esq.	Newlands, Salisbury
1886	Reynolds, Mrs. Arthur	Wyndcroft, Bridport
1887	Richardson, N. M., Esq., B.A. (President)	Montevideo, Chickerell, near Wey- mouth
1911	Robson, Colonel H. D.	St. Oswald, West Lulworth
1911	Robson, Mrs.	St. Oswald, West Lulworth
1886	Rodd, Edward Stanhope, Esq.	Chardstock House, Chard
1907	Roe, Miss M. M. E.	Trent Rectory, Sherborne
1909	Roe, Rev. Wilfrid T., M.A.	Trent Rectory, Sherborne
1912	Ronilly, Geo., Esq., M.A.	The Grange, Marnhull
1907	Roper, Freeman, Esq., F.L.S.	Forde Abbey, Chard
1917	Rumbold, Captain C. E. A. L.	Ivers, Marnhull, Sturminster Newton
1889	Russell, Colonel C. J., R.E.	Clavinia, Weymouth
1905	Sanderson-Wells, T. H., Esq., M.D.	16, Victoria Terrace, Weymouth
1905	Saunt, Miss	The Cottage, Upwey
1910	Schuster, Mrs. W. P.	Broadstone House, Wimborne
1904	Seaman, Rev. C. E., M.A., R.D.	Stalbridge Rectory, Blandford
1883	Searle, Alan, Esq.	Hawkmoor, Paignton, S. Devon
1906	Shephard, Colonel C. S., D.S.O.	Shortlake, Osmington, Weymouth
1903	Sheridan, Mrs. A. T. Brinsley	Frampton Court, Dorchester
1884	Sherren, J. A., Esq., F.R. Hist. S.	Helmsley, Penn Hill Avenue, Park- stone
1914	Sherring, R. Vowell, Esq., F.L.S.	Hallatrow, Bristol
1913	Shields, Rev. A. J., M.A.	Thornford Rectory, Sherborne
1897	Simpson, Jas., Esq.	Minterne Grange, Parkstone
1912	Smith, Rev. A. Hippisley	Knowlton House, Surrey Road, Bournemouth
1916	Smith, Rev. Edward, M.A.	Hazelbury Bryan Rectory, Blandford
1915	Smith, Mrs. Hamblin	Medical Officer's House, The Grove, Portland
1899	Smith, Howard Lyon, Esq., L.R.C.P.	Mount Pleasant, Inkberrow, Wor- cestershire
1909	Smith, Nowell C., Esq., M.A.	School House, Sherborne
1908	Smith, Mrs. Spencer	Vine House, Sturminster Newton
1888	Solly, Rev. H. Shaen, M.A.	Southcote, Alexandra Road, Parkstone
1901	Sotheby, Rev. W. E. H., M.A.	92, Banbury Road, Oxford
1905	Stephens, J. Thompson, Esq.	Wanderwell, Bridport
1908	Stephens, A. N., Esq.	Haddon House, West Bay, Bridport
1895	Sturdy, Leonard, Esq.	Trigon, Wareham

1896	Sturdy, Philip, Esq.	The Wick, Branksome, near Bourne- mouth
1907	Sturdy, Alan, Esq.	Linden, East Lulworth
1905	Sturdy, E. T., Esq.	Norburton, Burton Bradstock, Bridport
1914	Sturrock, J., Esq., C.I.E.	12, Greenhill, Weymouth
1898	Sturt, W. Neville, Esq.	9, Lansdown Crescent, Bath
1898	Suttill, H. S., Esq.	Pymore, Bridport
1905	Suttill, John, Esq.	24, West Street, Bridport
1913	Swaffield, A. Owen, Esq.	Rodwell Lodge, Weymouth
1912	Swinburne-Hanham, J. C., Esq.	106, Goldhurst Terrace, N.W.
1893	Sykes, E. R., Esq., B.A., F.Z.S. (<i>Vice-President</i>)	Longthorns, Blandford
1889	Symes, Colonel G. P., M.A., B.C.L., M.V.O.	Monksdene, Dorchester Road, Wey- mouth
1904	Symonds, Arthur G., Esq.	10, South Street, Dorchester
1904	Symonds, Henry, Esq., F.S.A. (<i>Vice-President</i>)	Roundham, Bridport
1912	Symonds, F. G., Esq.	The Firs, Sturminster Newton
1913	Symonds, Wm. Pope, Esq.	Newton House, Sturminster Newton
1901	Telfordsmith, Telford, Esq., M.A., M.D.	The Knoll, Parkstone
1906	Thomson, Chas. Bertram, Esq., F.R.C.S.	Romansleigh, Wimborne
1907	Towers, Miss	Talbot Cottage, Roslin Road, Bourne- mouth
1898	Troyte-Bullock, Mrs.	Silton Lodge, Zeals, Bath
o.m.	Udal, His Honour J. S., F.S.A. (<i>Vice-President</i>)	2, Marlborough Hill, London, N.W.
1908	Udal, N. R., Esq., B.A.	Gordon College, Khartoum
1890	Usherwood, Rev. Canon T. E., M.A.	Bagdale, Parkstone
1910	Vivian, S. P., Esq.	22, Royal Avenue, Chelsea, S.W.
1887	Walker, Rev. S. A., M.A.	Charlton Manor, Blandford
1916	Ward, The Ven. Algernon, M.A., F.S.A., Scot.	Sturminster Newton Vicarage
1905	Ward, Samuel, Esq.	Ingleton, Greenhill, Weymouth
o.m.	Warre, Rev. Canon F., M.A.	Bemerton, Salisbury
1904	Warry, Mrs. King	39, Filey Avenue, Clapton Common, London, N.
1904	Warry, Wm., Esq.	Westrow, Holwell, Sherborne
1917	Waterston, C., Esq.	Bucknowle House, Corfe Castle
1905	Watkins, Wm., Esq., F.R.G.S.	62, London Wall, E.C.

1893	Weaver, Rev. F. W., M.A., F.S.A., F.R.Hist.S.	Milton Vicarage, Everereech, Somerset
1908	Whitby, Mrs. J.	Preston, Yeovil
1914	Widnell, Edward, Esq., M.A.	Royston, Wimborne
1904	Wildman, W. B., Esq., M.A.	The Abbey House, Sherborne
1903	Williams, Captain Berkeley C. W.	Herringston, Dorchester
1884	Williams, Colonel Sir Robert, Bart., M.P.	Bridehead, Dorchester
1908	Williams, Miss Rhoda	Bridehead, Dorchester
1906	Williams, Miss Meta	South Walk, Dorchester
1906	Winwood, T. H. R., Esq., M.A.	Syward Lodge, Dorchester
1910	Woodd, A. B., Esq., M.A., M.R.I.	Heckfield, Milford-on-Sea, Hants
1916	Woodd, Rev. C. H. B., M.A.	Toller Vicarage, Dorchester
1913	Woodhouse, Rev. A. C., M.A.	Winterborne Monkton Rectory, Dor- chester
1913	Woodhouse, Mrs. A. C.	Winterborne Monkton Rectory, Dor- chester
1898	Woodhouse, Miss	Chilmore, Ansty, Dorchester
1903	Woodhouse, Miss Ellen E.	Chilmore, Ansty, Dorchester
1906	Woodhouse, Frank D., Esq.	Old Ford House, Blandford St. Mary
1906	Woodhouse, Mrs. Frank D.	Old Ford House, Blandford St. Mary
1911	Woodhouse, Miss A. M. R.	Norden, Blandford
1902	Wright, Rev. Herbert L., B.A.	Church Knowle Rectory, Corfe Castle
1910	Yeatman, H. F., Esq., M.A., B.C.L.	28, Cecil Court, Hollywood Road, London, S.W.

AFFILIATED LIBRARIES (Rule XXI.).

1911	Central Public Library	Bournemouth
1915	Sherborne School Library	Sherborne

The foregoing list includes the New Members elected up to and including the May meeting of the year 1917.

(Any omissions or errors should be notified to the Hon. Secretary.)

New Members

ELECTED SINCE THE PUBLICATION OF THE LIST CONTAINED
IN VOL. XXXVII.

PROPOSED DECEMBER 12TH, 1916.

<i>Nominee.</i>	<i>Proposer.</i>	<i>Seconder.</i>
W. O. Beament, Esq., B.A., of Beaminster, Dorset	R. Hine, Esq.	The Hon. Treasurer
W. E. Cowdell Barrett, Esq., M.A., LL.M., of The Cottage, Weymouth	The President	The Hon. Secretary
The Rev. F. L. Blathwayt, M.A., M.B.O.U., of Mel- bury Osmund Rectory, Dorchester	The Hon. Secretary	The Hon. Treasurer
C. Waterston, Esq., of Buc- knowle House, Corfe Castle	(the late) Clement Reid, Esq.	Arthur B. Woodd, Esq.

PROPOSED FEBRUARY 20TH, 1917.

<i>Nominee.</i>	<i>Proposer.</i>	<i>Seconder.</i>
Captain C. E. A. L. Rumbold, of Ivers, Marnhull, Sturminster Newton	Mr. George Romilly	The Rev. E. W. J. Hellins

PROPOSED MAY 9TH, 1917.

<i>Nominee.</i>	<i>Proposer.</i>	<i>Seconder.</i>
Mr. Macdonald Gill, of Toners puddle, Dorchester	Rev. H. R. Long	Miss F. Hamilton

PUBLICATIONS.

Proceedings of the Dorset Natural History and Antiquarian Field Club.
Vols. I.—XXXVII. Price 10s. 6d. each volume, post free.

General Index to the Proceedings. Vols. I.—XXVI. Price 6d., by post 7d.

The Church Bells of Dorset. By the Rev. Canon RAVEN, D.D., F.S.A. Price
(in parts, as issued), 1s. 6d., post free.

By the late J. C. MANSEL-PLEYDELL, B.A., F.G.S., F.L.S.

The Flora of Dorset. 2nd Edition. Price 12s.

The Birds of Dorset. Price 5s.

The Mollusca of Dorset. Price 5s.

By the late Rev. O. PICKARD-CAMBRIDGE, M.A., F.R.S., F.Z.S.

Spiders of Dorset. 2 vols. Price 25s., post free.

The British Phalangidea, or Harvest Men. Price 5s., post free.

British Chernetidea, or False Scorpions. Price 3s., post free.

By the PRESIDENT:

Second Supplement to the Lepidoptera of the Isle of Purbeck. Compiled
from the notes of Eustace R. Bankes, M.A., F.E.S. Price 1s.

The Volumes of Proceedings can be obtained from the Hon. Treasurer (Captain John E. Acland, Dorset County Museum); Mr. Mansel-Pleydell's works, from the Curator of the Dorset County Museum, Dorchester; the Lepidoptera of the Isle of Purbeck, from the President; and the General Index, from the Assistant-Secretary (Mr. H. Pouncy, *Dorset County Chronicle* Office, Dorchester).

SOCIETIES & INSTITUTIONS IN CORRESPONDENCE WITH THE FIELD CLUB.

BODLEIAN LIBRARY, OXFORD.

BOURNEMOUTH NATURAL SCIENCE SOCIETY, MUNICIPAL TECHNICAL AND
ART SCHOOL, BOURNEMOUTH.

BRISTOL AND GLOUCESTERSHIRE ARCHÆOLOGICAL SOCIETY, GLOUCESTER.

BRITISH MUSEUM, LONDON.

BRITISH MUSEUM OF NATURAL HISTORY, SOUTH KENSINGTON, LONDON.

BRITISH ASSOCIATION, BURLINGTON HOUSE, LONDON.

CAMBRIDGE PHILOSOPHICAL SOCIETY, CAMBRIDGE.

DEVONSHIRE ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, LITERATURE,
AND ART (THE HON. GENERAL SECRETARY, CARE OF MESSRS. W. BRENDON
AND SON, PLYMOUTH).

ESSEX MUSEUM OF NATURAL HISTORY, STRATFORD, ESSEX.

GEOLOGICAL SOCIETY OF LONDON, LONDON.

HAMPSHIRE FIELD CLUB (CARE OF MESSRS. GILBERT, SOUTHAMPTON).

NATIONAL LIBRARY OF WALES (LLYFRGELL GENEDLAETHOL CYMRU),
ABERYSTWYTH.

ROYAL SOCIETY OF ANTIQUARIES, DUBLIN, IRELAND.

SOCIETY OF ANTIQUARIES, LONDON.

SOMERSET ARCHÆOLOGICAL AND NATURAL HISTORY SOCIETY, TAUNTON
CASTLE, TAUNTON.

UNIVERSITY LIBRARY, CAMBRIDGE.

WILTSHIRE ARCHÆOLOGICAL AND NATURAL HISTORY SOCIETY, DEVIZES.

The Proceedings

OF THE

Dorset Natural History and Antiquarian Field Club.

(FROM MAY, 1916, TO MAY, 1917.)

WINTER SESSION, 1916-1917.

Owing to the continuance of the War, with the sorrow which it has brought, and is bringing, into so many homes, together with the uncertainty as to what railway facilities might at any time be obtainable, and the probable difficulties which might arise in arranging about other means of transit, it was decided that all the summer excursions during the past season should be abandoned. Consequently, the only meetings which have been held during the year have been the two in the winter and the general meeting in May.

FIRST WINTER MEETING.

Tuesday, December 12th, 1916.

The opening meeting of the session was held in the Reading Room of the County Museum at Dorchester. The President (Mr. Nelson M. Richardson) occupied the chair, and was supported by Sir Daniel Morris, the Rev. Herbert Pentin, Captain Acland, Mr. Alfred Pope, and Mr. Henry Symonds. Twenty-nine members of the Club were present.

Loss of a Distinguished Honorary Member.—The PRESIDENT, before the business of the meeting commenced, referred with deep regret to the death of Mr. Clement Reid, F.R.S., F.L.S., F.G.S., of Milford-on-Sea, who was an honorary member of the Club. Through his death the club, as well as the cause of geology, would suffer a great loss. Mr. Clement Reid was present at the excavation of the Dewlish elephant trench in 1914, and did very good work for the Club. (*Proceedings*, Vol. XXXVI., pages 209, 212-218.) On the proposition of Sir DANIEL MORRIS it was resolved that a message of sympathy should be sent to Mrs. Clement Reid.

The Membership.—One new member was elected, and the SECRETARY announced the nomination of four candidates for election as members of the Club.

Report of the Delegate to the Meetings of the British Association.—Sir DANIEL MORRIS, who, in the absence of Mr. Alfred Pope, had been present as a delegate from the club, gave a report of the meetings of the British Association at Newcastle-on-Tyne. As bearing on Mr. Le Bore's recommendation of the systematic study of zones of strata and their fossil remains, Sir Daniel stated that the Bournemouth Natural Science Society was about to have a series of lectures on the Kimmeridge shales; and it was hoped that these shales might prove a profitable source of oil and of sulphate of ammonia, notwithstanding the drawback that they contained rather too large a proportion of sulphur. It was proposed that the study of science should be promoted by means of popular lectures; the war having proved the immense value of all branches of science. The coming of the British Association to Bournemouth during the next year was calculated to stimulate scientific study, and to assist the development of various industries in the district; and he hoped that the club would co-operate in the endeavour to make the meetings of the Association a success.* The President would be Sir

*In consequence of the war, the British Association decided to forego the meeting which was to have been held at Bournemouth this year.

Charles Parsons, the inventor of the turbine, whose address was expected to be of great value.

Captain ACLAND stated that the *Plesiosaurus macromerus*, the chief treasure of the County Museum, was found by the late Mr. J. C. Mansel-Pleydell in the Kimmeridge shale; and, if the shales of Kimmeridge were further exploited, it was possible that other remains of *Plesiosaurs* might be found sufficient for a complete restoration to be made.

The PRESIDENT remarked that the club had been fortunate in having representatives to the British Association so able as Mr. Alfred Pope and Sir Daniel Morris. Doubtless one good result arising from the war would be that people would have learned the necessity of paying more attention to science.

Ruins at Portland.—The HON. SECRETARY reported that in September he wrote to Mr. Henry Sansom, of Pennsylvania Castle, Portland, begging that, if possible, the ruined walls of the pre-Reformation chapel near the Castle Gates, which were endangered by the quarrying operations in the immediate vicinity, should not be allowed to be disturbed, and that Mr. Sansom had kindly promised to give the matter his personal attention.

Discovery of Roman Coins at Portland.—Mr. HENRY SYMONDS stated that Mr. Pentin had handed to him a few Roman coins which had been found by Mr. John Pearee, of Wakeham. They were a first bronze of Hadrian, a coin of Diocletian, another of Maximian, others of the two Licinii, and a silver denarius of the Republican period, though he had not yet been able to discover the gens or family to which it belonged.

Discovery of Ancient Coffins at Poundbury.—On the presentation of the report of the Earthworks Committee of the Congress of Archæological Societies, Captain ACLAND mentioned that two ancient stone coffins and a lead coffin had been found on the site of the internment camp at Poundbury; but that no trace of pottery had been discovered. The stone coffins were still left under ground with their skeletons, to await a propitious time for their excavation.

EXHIBITS.

Major C. ASHBURNHAM exhibited the fine cinerary urn which had recently been found in the Bronze-Age Barrow at Melcombe Bingham. The paper which he read descriptive of the opening of the Barrow is printed in the present volume. Major Ashburnham presented the urn to the Dorset County Museum. Captain ACLAND, in thanking Major Ashburnham, on behalf of the Council of the Museum, for his much valued gift, said that this new specimen, distinguished as it was by careful design, would in all probability be the best Bronze Age urn which they would have in the Museum, although it was celebrated for its collection of Bronze-Age pottery.

The PRESIDENT exhibited a leaden bulla of Pope Innocent IV., 1243-54, and a volume of woodcut initial letters cut out (though, it was unnecessary for him to say, not by himself) from early books.

Mr. HENRY SYMONDS exhibited a volume entitled "Manual Exercises for the Dorsetshire Regiment of Militia," dated 1759, and printed by J. Hughs. It is a detailed and exhaustive manual of arms drill for the old flint-lock muskets.

PAPERS.

The following papers were read :—

- (i). The "Walks and Avenues of Dorchester," by Mr. Alfred Pope.
- (ii). "Old Portland," by the Rev. Herbert Pentin.
- (iii). "The Old Dorset Soldier," by Mr. F. J. Pope.

The first and third of these papers will be found printed on subsequent pages of this volume ; Mr. Pentin's paper on "Old Portland" was printed in the Volume of last year's *Proceedings*. (Volume XXXVII., pages 228-253.)

SECOND WINTER MEETING.

Tuesday, February 20th, 1917.

The chair was taken by the President, Mr. Nelson M. Richardson, and amongst those present were the Rev. H. Pentin, Captain Acland, Mr. Alfred Pope, and Sir Daniel Morris.

Four candidates, who had been proposed at the previous meeting, were balloted for and declared to be elected.

One nomination for membership was announced.

The PRESIDENT referred to the delay in the issue of the annual volume of Proceedings which should have been issued to the members in July, 1916. He understood that the absence of so many of the printing staff on military service had necessarily hindered the progress of the work. The ASSISTANT SECRETARY, at the President's request, explained the special difficulties, due to the war, which had caused the delay in the printing of the volume ; but expressed the hope that it would be ready before the annual meeting.

Upon the *Report of the Committee on Ancient Earthworks* of the Congress of Archæological Societies being presented, the Rev. A. C. ALMACK enquired of Captain Acland (the Curator of the County Museum) whether he was communicating with the Royal Engineers of the different military camps, as several ancient interments had been disturbed on Blandford Downs and the remains had been carefully reburied. Captain ACLAND replied that he had been in communication with the military authorities with a view to the careful preservation of all objects of antiquarian interest.

The Restored Churches Committee.—The Rev. A. C. ALMACK, the Hon. Secretary of this sectional committee, said that, acting under the instructions of the club, a considerable

amount of information about various churches which had been restored had been collected and the MSS. had been forwarded to Canon Mayo, who was of the opinion that all the papers were worth preserving. Canon Mayo said that he was still willing to receive such information ; but that he had no idea of editing it, or of reporting upon it.

EXHIBITS.

The PRESIDENT exhibited two fine copies out of a collection of Prayer Books of the 17th and 18th centuries, illustrated with copper plates, called " Historical cuts," and read the following note about them :—

A number of editions of these Prayer Books were printed, of which I have a small collection of about a dozen. My earliest one is dated 1667, and my latest 1771. The number of " cuts " is usually about 50, and they are, so far as I have seen, very similar in the different editions. One of the most striking is that of an eye looking down upon Guy Fawkes and his fellow conspirators, illustrating the service for November 5th ; and there are pictures of the Restoration, and of the Beheading of Charles I. and of the Apostles opposite to the collects for their festivals. Sometimes these cuts are coloured, as in the edition of 1711 exhibited. The rare service " At the Healing," which refers to the touching by the monarch for King's Evil, occurs in this edition, and also in another of Queen Anne's reign (1713) in my possession. A New Testament is bound up with the 1667 edition, and the " Companion to the Altar " and " Metrical Psalter " are frequently added.

Mr. H. SYMONDS observed that the practice of monarchs of exercising healing power began, he believed, in the reign of Henry VII., and was continued by our Sovereigns right through the Tudor and Stuart dynasties ; but came to an end with Queen Anne, the last of the Stuarts.

The PRESIDENT also exhibited a brass bleeding bowl (probably 18th century) and a blood letting machine, with 12 knives which are set with a lever and can be adjusted so as to cut to a depth of 3-16ths of an inch. The machine is placed flat upon the arm, and by pressing a knob the knives

spring back and make cuts in the skin—doubtless very effective ones when the knives are set to the full depth. The bowl was held with the scooped-out part against the arm so as to catch the blood. Dr. MACDONALD observed that not so very long a time had elapsed since blood letting machines had been in use, and that he knew an elderly medical man who formerly used one. In many cases they did good. The HON. SECRETARY remarked that a bleeding bowl of pewter, with the handle missing, is used as the alms dish at Halwell Church, Devon, and that a seventeenth century bleeding bowl with pierced handle of silver is used at Shebbear Church in the same county ; but he knew of none so used in Dorset.

The PRESIDENT also exhibited two straw-ornamented boxes—the smaller one bearing inside the date 1793. These boxes, with various other things, are said to have been made by French prisoners in England about a hundred years ago ; but probably this applies only to some of the specimens. Several are very elaborate, being decorated with patterns and pictures.

Miss DICKER produced a number of children's books, with quaint and interesting woodcuts, printed about a hundred years ago, and also a horn book.

Canon FLETCHER exhibited the earliest of the parchment rolls of Churchwardens' Accounts, dated 1403, which he had discovered amongst the old documents at Wimborne Minster. He read the following notes upon it :—

While engaged in collecting materials for the account of Anthony Ettrick which was read at the meeting of our club on December 7th, 1915 (*Proceedings*, Vol. XXXVII., pages 24—39), I noticed in the pages of our local historian that a namesake of his, another Anthony Ettrick, had been “presented” before the Ecclesiastical Court at Wimborne, in 1611, for absenting himself from the Holy Communion. Knowing that there was a bundle of papers labelled “Presentments” in one of the chests full of documents which are in the Library at the Minster, I had the curiosity to open the bundle to look for the Ettrick presentment. To my surprise and delight, I found that, instead of containing 17th century presentments, the bundle consisted of a

number of compotus rolls, or churchwardens' accounts, dating from quite early in the fifteenth century. It is well known that, at Wimborne, we are so fortunate as to possess an almost complete set of churchwardens' accounts, dating from 1475 until the present day. The county historian, in the appendix to the account of Wimborne Minster (in the last edition, *Hutchins's History of Dorset*, Vol. III., page 255), speaking of the churchwardens' accounts, says "Hutchins mentions a more ancient account book, beginning 1413, which is now missing." His reference is to the second edition of Hutchins, or, which is the same thing, to *Russell's Vindogladia*. The accounts which came to light 15 months ago are a collection of parchment rolls, about 40 in number, containing the Minster churchwardens' accounts, written in Latin, and dating back to the year 1403. They are not complete; but they cover about two-thirds of the years between 1403 and 1475. The roll which is brought for your inspection to-day, with a Latin transcript and an English translation, is not by any means the most interesting or the fullest of the series; but it is exhibited because it is the most ancient. It is entitled "Wymbon Mynstr. The account of John Swanhanger and Roger Forester, Guardians of the Fabric of the church from the feast of Saint Michael in the fourth year of the reign of King Henry the Fourth after the Conquest up to the same feast of Saint Michael thence next ensuing in the fifth year of the afore-said King Henry for one whole year." The receipts arose from monies handed over by the wardens of the previous year; from rents of assize; from oblations, *e.g.*, offerings before the head (image) of St. Cuthberga, at the feast of St. Stephen 12s., at Easter 18s., and on the morrow of Pentecost 13s.; in the box (in pixide) was found 6s. 8d.; and two women, the wives of Hugh Smyth and Henry Chynne, each gave the sum of 3s. 4d., presumably for the obits of their deceased husbands. The sale of stock brought in a certain amount; and the prices realised are interesting as showing the difference in the cost of animals—or, perhaps it would be more correct to say, the difference in the purchasing value of money—five centuries ago as compared with what it was in the first decade of the present century, before prices were so much inflated as they are now in consequence of the war. The churchwardens were paid 13s. for a bull; a heifer produced 6s.; four sheep were sold for 4s. 8d.; the hide of a cow was worth 12d.; two calves brought 8s.; a quantity of coarse wool was sold for 8s.; and of new wool for 10s. "Church Ales" were a regular source of revenue; in addition to which brewing "leads" were owned by the wardens and in later years let out for hire. During this year the number of such utensils for brewing, in the possession of the church authorities, was increased from three and a half to eight:—Bequests of such brewing utensils having been received from Nicholas Bere, Henry Codde, the

mother of Henry Codde, the wife of Renand, &c. Bequests in kind indeed were more numerous than legacies of money; and, in addition to "brewing leads," included a brass pot, cattle, sheep, &c. The latter were not disposed of at once, but were put out to pasture, and the wool of the sheep was sold. Consequently farming may be said to have been one of the duties of the churchwardens; for there is a record of money having been expended upon the purchase of sheep and cattle and upon their pasture. Other payments made were for the remaking of three bells called "lichebell;" for a chalice 7s.; for the repair of the windows in the church and belfry; for paving the church; to the helier for covering tiles over the "charnel;" for repairing a place called Calys, and for repairing divers defects both within and outside the church; for making a lamp for St. Mary the Virgin; for chains for the censers; for five pairs of woollen garments* purchased for the family of William Loryng 5s. 6d. (et in V paribus caligarum emptis pro familia Williemi Loryng Vs. VIId.); for the wages of a clerk for writing the accounts for the inspection of the dean 6d. The parchment for the roll now exhibited cost 2d.; and the writer was paid 12d.; the other expenses connected with making the account (possibly the cost of refreshments) were 2d. The total receipts in money for the year were £12 13s. 7d., and the expenditure amounted to £6 11s. 8d.

On the other side of the roll is a statement of the stock held by the wardens—cattle, sheep, wool, brewing leads, brass pots, &c., showing what had been handed over to them at the commencement of their year of office; what had been acquired by gift or otherwise during the year; what had been disposed of; and what balance they had at the close of the period.

William Loryng (probably the one above mentioned) was a Prebendary of Wymborne Minster, from 1386 until his death in 1415. He is said to have been brother to the celebrated Sir Neil, or Nigel, Loring. The following extract from the *Fatent Rolls* refers to his connection with Wimborne:—"10 Richard II. Oct. 16 (1386). Ratification of William Loryng as prebendary of prebends (*sic*) in the free-chapel of Wynbornmynstre," &c. In his will, which is to be found amongst the Lambeth Wills (Chichele l. fo. 290b. and 291), and was proved at Lambeth by Robert Brown, Canon of Salisbury, 14 Dec. 1415, he left a vestment and a large missal to Wimborne Minster, and gave directions that he was to be buried in the cemetery of the Blessed Mary the Virgin of New Sarum on the West side, before the image of the B.V.M. at the west door, near his kinsman John Payne.

* *Par Caligarum*—pair of woollen cloth Venetians, which were a peculiar fashion of hose or breeches, originally introduced from Venice.

He left numerous bequests to monasteries, and to Merton College, Oxford. The following extract from the will refers to his bequests to Wimborne :—" Item lego ecclesie collegiatae de Wynborn Mynster unum magnum missale cuius secundum fo. post Kalendar' incipit 'inana et pro papa', et unum vestimentum cum tribus capis de panno albo cerico et deaurato quod modo ibidem est."

The Rev. HERBERT PENTIN said he supposed that this roll of 1403 was one of the earliest churchwardens' accounts extant in England.

Canon FLETCHER replied that if Dr. Cox's list given in his book on Churchwardens' Accounts was comprehensive, the Wimborne Computus Rolls appeared to come sixth in actual order of age, although in all probability they were the most complete. The earlier ones were those of St. Michael's, Bath, which dated back to 1349 ; the fragmentary accounts of the three churches in Hedon, in the East Riding of Yorkshire—St. James, 1350, St. Augustine, 1370, and St. Nicholas, 1379 ; and those of Tavistock, 1385. The recently transcribed rolls belonging to the interesting old church with its Saxon tower—St. Michael's, Oxford—commence in the same year as the Wimborne ones, viz., 1403.

The PRESIDENT, in the name of the club, congratulated Canon Fletcher on his fortunate discovery.

Captain ACLAND exhibited two Portland reeve-staves, and read a descriptive paper which will be found printed in this volume.

The Rev. C. H. WOODD exhibited a copy of one of the earliest editions of the " Authorised " Version of the Holy Bible.

PAPERS.

The following papers were read :—

- (i.)—" A Leaden Coffin of the Roman period, found at Cann, near Shaftesbury," by Mr. H. St. George Gray (Printed).
- (ii.)—" Notes and Queries on the Minsters of Wessex," by the Rev. A. C. Almaek (Printed).
- (iii.)—" A Commercial Day Book (1697-1702) of Mr. John Richards, of Warmwell," by Mr. W. Neville Sturt (Read in Mr. Sturt's absence by the Hon. Secretary).

ANNUAL BUSINESS MEETING.

Tuesday, May 8th, 1917.

The meeting was held at the County Museum, Dorchester, the President, Mr. Nelson M. Richardson, taking the chair at 12.45 p.m. He was supported by the Rev. Herbert Pentin, Captain Aeland, Captain Elwes, Mr. Alfred Pope, &c., and in spite of the distractions of war time there was a fair number of members present.

New Members.—One candidate for membership was elected by ballot, and one additional candidate was nominated.

Mr. RICHARDSON gave his presidential address, the thirteenth which he has delivered from the chair.

Mr. ALFRED POPE, as an original member of the club, proposed a hearty vote of thanks to the President for his admirable address—not the least interesting of the many, covering a wide range of subjects, delivered since Mr. Richardson was elected president 13 years ago. All appreciated the erudition and persevering research which the President had brought to bear upon his task; and they hoped that he would be spared to give the club 13 more such addresses. The vote was seconded by Colonel MAINWARING and Captain ELWES, and carried with applause. Referring to the President's remarks on the influence of the pituitary gland on growth, and the possibility of this being the clue to a race of giants in the future, Captain PITT OWEN stated that there was in the Australian camp a man whose height was no less than 7 feet and 4 inches.

The Cecil Medal.—Warrant Officer W. Leeming, A.I.F., the winner of the Cecil medal and prize of £10, read his essay on "The more recent applications of electricity in the present war, especially in the treatment of diseases and wounds

arising therefrom.” The PRESIDENT said that the examining body (consisting of Lord Eustace Cecil and the other two trustees, with the electrical expert to whose judgment the essays had been submitted) were unanimous in their opinion that W.O. Leeming’s paper was the best. With hearty congratulations he presented the medal and prize. Colonel SPENCER-BROWNE, Commandant A.I.F., Montevideo, spoke of the pleasure and pride which the success of an Australian had given in the camp.

The HON. TREASURER, Captain ACLAND, presented his statement of accounts for the year ending 31st December, 1916. The amount received during the year had been £193 ; and, owing to the Proceedings not having been yet published, there had been practically no expenditure.

The HON. SECRETARY, the Rev. HERBERT PENTIN, read his report, which was as follows :—

Owing to there having been no summer meetings there is not much to report and there are no secretarial accounts to present. The winter meetings have been attended quite as well as could be expected under war conditions. Several members, when sending in their resignations, have added that they will join the club again after the war. The chances are that they will profit nothing by this course. For when they join again they will have to pay the entrance fee anew, and there will be a missing volume or two in their set of the Proceedings, which, if they wish to obtain, they will have to pay a full year’s subscription to the club for each volume.

In the absence of the Hon. Editor, Mr. H. Symonds, it was stated that the Volume of *Proceedings* for 1916, which, owing to the shortage of labour caused by the war, had been so long delayed, was almost ready, and would be very shortly issued to the members.

Captain ACLAND, as Curator of the Dorset County Museum, read the following report of acquisitions made by the Museum during the twelve months which had elapsed since the last annual business meeting of the club (May, 1916—May, 1917) :—

I propose to refer to-day to a few of the chief acquisitions during the last 12 months, but not to attempt a description of all the specimens

added to the various collections, which, although most acceptable as Museum exhibits, are not of sufficient importance to occupy our time now.

I consider the most interesting acquisition is the fine cinerary urn found by Major Ashburnham in a barrow at Melcombe Bingham in September, 1916, and exhibited at the Field Club meeting in December. The exhibit was accompanied by a carefully written description of the excavation which will no doubt appear in the Volume of Proceedings. I need only remark now, that both the excavator and the Museum are most fortunate owing to the fact that this beautiful specimen of Bronze Age work was recovered, undamaged in any way, from its long resting place.

Another relic of the same period, a good bronze dagger-blade, was found by an intelligent lad in a chalk bank by the side of the Dorchester-Weymouth road, on Ridgway. It has still 2 of the 3 rivets in situ, and the patina is extremely bright. Associated with the dagger were portions of a human jaw ; so we may safely infer that the cutting was through, or close to, a barrow.

One other acquisition I refer to with some regret. A bittern, which had taken refuge in a field called "Chapel Meadow," at Nottingham, was shot on the 9th February, 1917—"accidentally," so I was told. What exactly was meant by that expression I do not quite know. Perhaps the kindest view to take of this unfortunate act is that the bird was mistaken for a heron ; but even so we may be sorry that its life was not spared.

I now pass to acquisitions of a very different character, and I believe it is the third time that I have had the privilege of announcing that original MSS. of William Barnes have been entrusted to the County Museum. The "Hand-writs" of our Dorset Poet could indeed find no more honoured home.

The Barnes MSS. previously acquired are "Edge Tools in Early Britain," or (as the author might have described them) "Stonen Tools," and "Dorset Dialogues," referred to in Lucy Baxter's life of her father, as "Hand-writs not printed, one up-sewing." These are on loan from the Rev. Arthur Barnes, acting as executor to his father, the Rev. W. Miles Barnes, in whose possession the poet's papers were left. The "Dialogues" are imaginary conversations of two farm hands enjoying a friendly chat in the midst of their work, as might frequently be observed at the present day. They are of course full of Dorset expressions, some of which must have now passed out of use, just as some of the subjects they deal with are "by-gones" of previous generations. There are nine Dialogues bearing the following titles :—1. About a fish or two. 2. About a barrel. 3. Mowing. 4. About hedging. 5. Ploughing. 6. The Bark ripper. 7. The Cider

press. 8. Gwain to pits. 9. The Butcher. But to-day I am able to report an acquisition (also on loan) of still greater interest and value, for, as it seems to me, it is none other than the original copy, probably the very first commitment to paper, of *Poems of Rural Life in the Dorset Dialect*. They are contained in seven different MSS. books, copy book size, and comprise nearly 200 poems, about half of which I have traced in the printed volume published by Kegan Paul. They are full of corrections of all sorts, expressions altered, lines scored out, and even verses rearranged differently from the original order. Some of the poems are marked "printed," others *Macmillan's Magazine*, others again *Dorset County Chronicle*, with the date of publication.

To those of us who still feel an affection for the glimpses of rural life revealed in the Poems it is indeed a privilege to get them direct from the author's own hand. We may feel, as he says himself in a letter to his daughter, "I wrote them as if I could not help it. The writing of them was not work, but like the playing of music, the refreshment of the mind from care or irksomeness."

Restored Churches' Committee.—The Rev. A. C. ALMACK, the Hon. Secretary of this Committee, reported as follows :—

The Committee met at Wimborne Vicarage in August, 1916, and reviewed the work done. Some 30 papers of replies to inquiries had been sent in and about 10 more have since been received. Among them are some very interesting and careful details supplied by Mr. R. Hine and Mr. H. Syndercombe Bower; and in some cases very interesting information has come from builders employed in the restorations. The Secretary hopes that during the summer months, by the help of certain other members of the Committee, he may be able to prepare a digest of the various facts which have so far been ascertained, and that he may be able to present it at the meeting of the club in December, 1917.

Election of Officers and Committees.—Captain ELWES proposed the re-election of Mr. Nelson M. Richardson as President. This was seconded by Canon FLETCHER, who said that it seemed as if Mr. Richardson's whole life had been a period of preparation for the presidency of the club which he filled so ably and so acceptably. The resolution was unanimously adopted.

The Rev. Herbert Pentin was, on the proposition of Canon FLETCHER, re-elected Honorary Secretary, and he nominated Mr. H. Pouncy again as his Assistant Secretary.

Captain Acland was re-elected to the post of Honorary Treasurer.

Mr. H. Symonds having resigned the Editorship of the *Proceedings*, Canon Fletcher (who had been nominated by the President in accordance with Rule 2) was elected Honorary Editor, on the proposition of Captain ELWES.

The PRESIDENT nominated, for the ensuing year, the retiring Vice-Presidents.

The Sectional Committees.—The Earthworks Committee, the Numismatic Committee, the Directors of the Dorset Photographic Survey, and the Restored Churches' Committee were all re-elected.

Medal Competition.—It was announced that the Mansel-Pleydell Medal and Prize of £10 would be awarded in May, 1918, for the best paper on "The Kimmeridge Clay of Dorset, and its industrial uses, past, present, and future."



Dorset Natural History and Antiquarian Field Club.

TREASURER'S ACCOUNT FOR THE YEAR ENDING DECEMBER 31ST, 1916.

		INCOME.		EXPENDITURE.			
		£	s. d.			£	s. d.
To Balance brought forward .. ..	..	71	11 9	By <i>Time and Co.</i> :—			
" Members' Subscriptions .. ..	..	171	1 0	Printing and Binding 375 Copies		132	16 0
" Two Affiliated Libraries .. ..	..	1	0 0	of Vol. 37, 1916 .. ..	..	8	13 2
" New Members' Entrance Fees and Subscriptions	..	5	0 0	Postage, Wrappers, &c. .. ..	..	25	1 6
" Dividends on £500 2½% Consols. (less tax) for 9	..	12	11 9	Authors' Copies, Programmes,			
months .. ..	..	..	..	Advertisements, &c. .. ..	..	166	10 8
" Sale of Volumes .. ..	..	1	10 0				
				<i>Engraving Blocks</i> :—			
				Swain and Son .. ..	..	5	9 6
				Artists Illustrators. Ltd. ..	..	11	11 8
						17	1 2
				<i>Subscriptions to Societies</i> :—			
				National Trust .. ..	..	1	1 0
				Archæological, and Copies	of	1	16 11
				Report .. ..	..	
						2	17 11
				<i>Miscellaneous</i> :—			
				Cost of Postages for Reports ..	..	1	9 6
				Printing for Committee on Re-			
				stored Churches .. ..	..	1	0 0
				A. Kilbey—Preparing Room for			
				Meetings, Storage of Vols., and			
				Postages .. ..	..	1	10 10
				Hon. Sec. and Assistant Soc.			
				Postages .. ..	..	0	12 0
				Treasurer's Petty Cash and Post-			
				ages .. ..	..	0	19 2
				Treasurer's Assistant, Honorarium		5	0 0
				H. Ling, Stationery and Printing		0	5 0
				Cost of removing old inscribed			
				stone in Broadmayne Churchyard		2	15 0
						13	11 6
				Balance carried forward .. ..	..	62	13 3
						£262	14 6

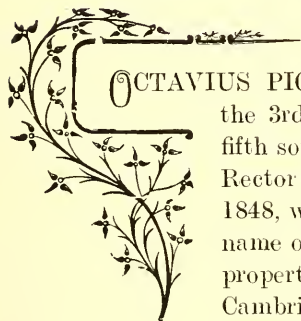
August 31st, 1917.—We certify that we have examined the foregoing Statement of Account and find the same correct.—
EDWARDS and EDWARDS, Incorporated Accountants, Cornhill Chambers, Dorchester.
JOHN E. ACLAND, Hon. Treasurer.



En Memoriam

THE LATE REV. O. PICKARD-CAMBRIDGE, M.A.

By his Son, ARTHUR WALLACE PICKARD-CAMBRIDGE.



OCTAVIUS PICKARD was born at Bloxworth on the 3rd of November, 1828. He was the fifth son of the Reverend George Pickard, Rector and Squire of Bloxworth, who in 1848, with his family, took the additional name of Cambridge on succeeding to the property of his cousin, Charles Owen Cambridge, of Whitminster. He failed (owing to the death of one of his supporters among the Fellows) to obtain entrance to Winchester College, and in the middle forties he was for two years the pupil of the Rev. William Barnes, the Dorset poet, for whom he always retained the warmest respect and affection, and of whom he wrote an eloquent memoir in these *Proceedings* (Vol VIII.,

xv.—xxxiii.). While learning Latin and Greek from Mr. Barnes, he was also learning the violin from Mr. Sidney Smith, and his fondness for music outlasted his taste for the classics; but at one time he must have read and enjoyed a good deal of Virgil and Horace, and to the end of his life he would sometimes bring in an apt quotation from them. Apart from these studies, he lived the usual life of the son of a country-house, enjoying plenty of shooting, and beginning the formation of his fine collection of stuffed birds, which in time included many rare species, but was unfortunately allowed to perish through the carelessness of the managers of an exhibition to which he lent it. He was also in these days a keen beekeeper and gardener.

In 1849 he went to London to study for the Bar; but neither the work nor the life in London suited him, and after two years he gave up the study. In 1855 he entered University College, Durham, where he took the degrees of B.A. in 1858, and M.A. in 1859. At Durham he entered fully into the life of the University; we find him acting as steward at steeple-chases, as President of the Choral Society of his College (he had a fine voice of wide range), and as the donor of a challenge cup to his College Boat Club. In 1858 he was ordained Deacon, and in 1859 Priest, by the Bishop of Chester, and for two years held the curacy of Scarisbrick in Lancashire, residing at Southport. He was already a keen naturalist. His early pursuits were mostly ornithological; but his entomological career began with the capture of *Colias Hyale* in 1835, and about the middle of the "fifties" he was attracted to the study of the Arachnida by the writings of John Blackwall, to whom he was introduced by Mr. R. H. Meade, of Bradford, then a well-known naturalist. He was keenly interested in the problems which Darwin attempted to solve in the *Origin of Species*, and he welcomed Darwin's theories, and thereby got into bad odour with some of his brother clergy in Lancashire, who preferred denouncing Darwin to reading him. It was while he was in Lancashire that his first published writings on Spiders appeared, in the form of

papers on *Spiders taken in Dorset and Hampshire*, and a *List of Southport Spiders*, "with remarks on uniformity of use and meaning of words in Natural History"—one of those of matters of method which always had an interest for his orderly mind.

In 1860 he left Lancashire to become Curate of Bloxworth and Winterbourne Tomson, under his father, and the light work of the two villages gave him plenty of time for entomology and for visits to Wales and Scotland, where he collected both spiders and *Lepidoptera* energetically. One of the results of his visit to Blackwall at Llanrwst in 1860 was that he undertook to see Blackwall's great work on *British and Irish Spiders* through the Press, the author having got into great difficulties over its publication. Blackwall's work was a landmark in the study of the subject, and my father's own terminology and descriptive methods were for many years based on those of Blackwall, though he gradually became independent of him, and came more closely into touch with the leading continental Arachnologists. After Blackwall's death the series of types which he had used for his work came into my father's possession, and greatly enhanced the value of his own collection.

The years 1864 and 1865 were mainly passed in travel. Several months were spent in Egypt and Corfu, and in Austria (chiefly at Ischl) in 1864; and in 1865 my father made a long tour in Palestine, visiting also various parts of Greece, Asia Minor, and Italy, and returning home through Austria (where again he spent many weeks), and through Germany, where (at Nuremberg) he made the acquaintance of Dr. Ludwig Koch, then one of the foremost Arachnologists in the world. In all these countries he collected spiders and insects, and in Egypt he and his party shot 139 species of birds, many of them little known at the time. In Egypt and in Palestine he obtained a number of new species of *Lepidoptera*, which were described at his request by Zeller, Lederer, and Stainton, as well as a great number of new spiders, of which he published a full account a few years later.

These travels were something more than a passing phase in his life. He never forgot his pleasure in them, and used often to turn over his foreign sketch books and recount anecdotes from his experiences ; and these travels gave a reality and an interest to his life-long correspondence with foreign naturalists and his continual work at exotic collections sent to him by them and others.

In 1866 he was married at Oxford to Miss Rose Wallace, whom he had met while abroad ; and in 1868 his father died, and he succeeded to the two Rectories of Bloxworth and Winterbourne Tomson. The latter parish, two miles from Bloxworth, consisted in its best days of about 20 souls ; and my father reckoned that he had walked over 7,000 miles in all weathers between Bloxworth and Tomson to do his duty to his little flock, before (about 1890) the church at Tomson was closed with the consent of the Bishop, and the parishioners were recommended to attend one of the two churches in the adjoining fields. One who knew him well thirty years ago writes : " There are certain bits of landscape I can only picture with your father in them. Tomson Park requires him with his big stride and his coat-tails fluttering in the wind. I think of him as the ideal parson of a small country parish." The last sentence is in many respects no more than the truth. My father did not indeed in his later years keep pace with the newer movements in Church life, but he knew his rustic parishioners thoroughly ; they loved and trusted him, and he never spared any pains to help the young people to make a success of their lives. Even when old age prevented him from going far beyond his door, they came to him, as ever, in every trouble and for advice on every subject ; and the affection with which he was regarded in return was strikingly shown in the letters which some of those who joined the Army in 1914 and 1915 wrote to him from France and Mesopotamia. It was no wonder that one of the older farm-labourers—a man not much given to expressing emotion—should have said, when my father passed away, " There, 'tis the end of all things to we." Indeed, it is almost true

that his death marks the passing of an epoch in village life. The relations between him and his parishioners were in some degree hereditary ; they were based on the feeling, natural in the days of patriarchal government, of the poorer parishioners towards “ the family ; ” and he himself belonged to the time when government by the squire and parson was accepted by all as natural. It was often a good government ; it was founded on the recognition of class distinctions arising from differences of birth and education, but also on the full recognition by the better educated of their duties towards their humbler neighbours. The differences in education are no longer so sharp, and the element of patronage inherent in the old-fashioned benevolence has become distasteful to those who used to accept it with honest gratitude. The change is a wholesome one in its ultimate tendency ; but it is impossible not to regret in some measure the passing of the older relations between the different elements in village-life—relations which, so far as my father and his parishioners were concerned, subsisted in spirit until his death.

My father conferred visible benefits upon his parish in the rebuilding of the Chancel of his Church, the building of the Village School, and (many years later) the reseating of the Nave of the Church. At the Rectory he practised an old-fashioned hospitality, and year by year welcomed his parishioners to the celebration there of old Christmas customs which have died out in so many other places, and the singing of the old carols which were traditional in the village. In his parish work he had the constant help of my mother, who for over forty years, without a thought of self, gave herself up to the good of those about her—taught in the Sunday School, played the organ in Church, ministered to everybody’s needs, and did all the manifold duties which in many parishes are shared by a number of workers. From 1871 to 1889 my father was a member of the Salisbury Diocesan Synod, at which he occasionally spoke ; and for a few years he acted as Diocesan Inspector of Schools.

He was an enthusiastic musician, and was a well-known figure, with his violin, at orchestral concerts in Dorchester and Weymouth. At his death he had been for many years President of the Dorset Orchestral Association ; and he had always tried to encourage a taste for the great music of the classical composers of the continent, or of the finest English writers of glees and madrigals. Not only town audiences, but audiences in many villages also, were found to appreciate good music at least as warmly as trumpery. For a great number of years he was a constant performer with voice and violin at village concerts in Bloxworth and the neighbourhood, and took endless pains over practice and rehearsals. On one occasion he varied music with drama. In ^{the}~~the~~ 1885 some ambitious spirits at Bere Regis gave a performance of "The Rivals," and his energetic impersonation of Sir Anthony Absolute cannot have been forgotten by those who witnessed it. It was no mean service, to have helped and encouraged wholesome entertainments in villages, where entertainments of any kind are but few, for so many years.

He was a very loyal son of Dorset. His earliest venture into print was an appeal (in the *Dorset County Chronicle* in 1855) to the people of Dorset to make the Dorchester Museum worthy of the County ; he was one of the founders of the Dorset Field Club at the first meeting at Sherborne in 1875, and one of its most energetic members as long as his powers lasted ; he was its Treasurer from 1882 to 1900, and remained one of its Vice-Presidents until his death. He will be well remembered as the organizer of many of the field-meetings ; and with his long beard and white puggaree he was always one of the most conspicuous figures at these meetings, at which, in the absence of the Secretary, he generally acted as whipper-in of the straggling pack. It was characteristic of him that his chief work on British Spiders should have taken shape as "*The Spiders of Dorset*," and that species not found in the County should have been banished to an appendix ; and equally characteristic, that much of his best work should have been published in the

Proceedings of the Club. I remember that, when I and my brothers were boys, we learned to regard the capture of a species "new to Dorset" as an event of almost as great importance as the discovery of one "new to Britain" or "new to science." Quite apart from his personal loyalty, he believed strongly in the thorough working of definite areas by collectors; and all through his life, but especially in his late years, when he was debarred from active collecting, he was always ready to help in working out local lists of species from whatever part of the country; and many "County Histories," and "County Natural Histories," contain careful contributions from his pen.

He was elected a Fellow of the Royal Society in 1887, and was, of course, a member or honorary member of many other scientific societies at home and abroad. His principal work lay always in the study of the *Arachnida*, upon which he was for many years one of the chief authorities in the world; probably only two or three others now living can claim the same rank. Of these the foremost, Mons. Eugene Simon, of Paris, came to England as a refugee after the taking of Paris in the Franco-Prussian War, and, after meeting my father then, maintained a constant friendship and correspondence with him afterwards. My father's collection of Spiders grew rapidly with his own collecting and the large contributions made to it by other collectors in all parts of the world. At his death it was contained in about 5,000 bottles of all sizes—many of them holding from two to twenty separate tubes of specimens in spirit; and it included the type-specimens of about 1,000 species, of which 800 or more had been described as new by himself. His principal work, apart from the *Spiders of Dorset*, was his large contribution to the *Biologia Centrali-Americana*, which occupied much of his time from 1883 to 1902. Among other works of some extent were the descriptions of species on Moggridge's *Harvesting Ants and Trapdoor Spiders* (1873-4), the article *Arachnida* in the ninth edition of the *Encyclopædia Britannica* (1875), and the account of the Spiders taken in

the course of the second Yarkand Mission (1885). But the greater part of his work was contained in papers published at first in the *Zoologist* and occasionally in the *Transactions of the Linnean Society*, but mainly in the *Annals and Magazine of Natural History*, the *Proceedings of the Zoological Society*, and the *Proceedings of the Dorset Field Club*. He wrote altogether (in addition to his larger works, reviews of books, and short notes in various periodicals) about 130 of these descriptive and faunistic papers on Spiders between 1859 and 1914, nearly all illustrated by the clear, accurate, and artistic drawings which were so useful a feature in his work. In recent years some of his discriminations of species have been revised by younger students, and he always warmly encouraged and welcomed such revision, even when it led to the setting aside of some of his own results ; but very little of his work in Arachnology has been or is likely to be undone. His Monographs on the British *Phalangidea* (Harvestmen) and *Chernetidea* (False Scorpions) were the first works of their kind in this country, and, like the *Spiders of Dorset*, have been the necessary starting point for all subsequent work.

But his scientific interests were far from being confined to Arachnology. He was a first-rate all-round Naturalist, and there are many contributions from his pen in the *Zoologist* and other periodicals upon Birds and Animals of all kinds, while his little monograph on the *Reptiles of Dorset* is probably familiar to many members of the Field Club. He was always an ardent collector of *Lepidoptera* ; and between 1835 and 1916 (when he set his last specimens) many rare and interesting species fell into his hands. He was a frequent contributor to the *Entomologist* and other journals of the same kind ; and the *Proceedings* of the Field Club contain several papers by him on new or rare Butterflies and Moths. Of other orders of Insects he took whatever came in his way, without making any special search for them ; but the result was a not inconsiderable collection of all orders, including many varieties. But whatever he studied, he was always thorough

and scientific. He was no mere collector of Macro-lepidoptera and showy species, and sometimes spoke with amusement of the "Diurnal and macrolepidopterous frame of mind" of those whom he termed "goodness-gracious naturalists;" and though for many years he pursued the "macros" with all the arts of the hunter by day and night, and bred them in large numbers, his chief delight—certainly from the early eighties onwards—was in the smallest moths, for which he worked untiringly, often in company with Mr. Nelson M. Richardson or Mr. Eustace Bankes, whose friendship added greatly to the pleasure of his pursuits, and took the place of his older association with Mr. Frederick Bond and other famous naturalists of the middle of the century, of whom he gave an amusing account in the *Entomologist* (Vol. XXIX.) entitled "Brockenhurst revisited." He collected, of course, mainly at Bloxworth and in the neighbourhood, which offers a singular variety of localities from its situation at the junction of the heath, the clay, and the chalk. There can be few finer hunting grounds in this County than Bere Wood, Morden Park, and the glorious expanse of Bloxworth Heath. He also worked much at Weymouth and Portland, and in 1895 revisited with great delight the haunts in the New Forest where he had frequently worked forty years before with Mr. Bond. No words can describe the delightfulness of his companionship in a collecting ramble: his always boyish enthusiasm, his knowledge of every kind of bird, beast, and creeping thing, his unselfishness and unfailing fun, made him unlike anyone else. It was always a pleasure to him to give help and encouragement to younger collectors; and though he would never have anything to do with exchange of the half-commercial kind which so often prevails among naturalists, he was always ready to give to others, and to work hard to get specimens to give, long after his own set was complete, and it is right to say that many others were equally generous towards him.

He always kept up his interest in the group of problems associated with the names of Darwin and Wallace, with

both of whom he frequently corresponded on these subjects, and both of whom consulted him upon a number of important points ; and by getting to know everything that was to be known, not only about his particular subject, but also about his district and its fauna, he was able to contribute something to those who were seeking the solution of the wider biological questions which lie in the background of Natural History. It is indeed idle to ask what is the value of a life devoted to Natural History. The value to the naturalist himself is beyond dispute. There can be few better or purer pleasures than those which arise from a knowledge of Nature, growing daily, and daily sought with greater patience, surer confidence, and increasing hopefulness—sought, moreover, largely in the open air, in the woods or on the downs or the heath, among ever-changing sights and sounds of beauty, in little things no less than in great. But, apart from this, the only answer to the question is that in one sense everyone knows the value of such a life, for all knowledge has a value unique in kind, and not measurable by other standards ; and in another sense no one knows, for no one can foresee what, in the lifetime of the naturalist or afterwards, will be the larger result of facts carefully collected on a wide scale and minutely studied. The moment when they will be of use for the solution or illumination of large problems may be long delayed, or it may come soon ; but the advance of science consists in no small degree in the discovery—often the sudden discovery—of the meaning of some great accumulation of data patiently made by workers who sought for no reward beyond the satisfaction of adding to the sum of human knowledge, and finding their own happiness in a pure and enlightening pursuit. His great collection of *Arachnida* has found a new home, as he desired, in the University Museum at Oxford ; and there, together with his fine library of Arachnological literature, it will always be accessible to students. The Hope Professor of Zoology, on the occasion of the acceptance of the bequest by the University, described it without exaggeration as the greatest contribution to

systematic Zoology that the University had ever received by one gift.

It is time to close this account of my father's life and work, though of some aspects of it nothing has been said—of his strong antiquarian interests, especially in connection with Roman or British remains in the County, and with Church-architecture ; of his political activities, which from time to time occupied no little of his energies ; of his lectures at Public Schools and elsewhere on subjects in Natural History, and of much beside. It was not until about the turn of the century, when he was a year or two over 70 years old, that he began to feel his age at all seriously. Then began a series of attacks of illness, which greatly crippled him, and at last confined him almost entirely to his Rectory, though his hand and eye remained as keen as ever, and he worked almost every day at the table in the window of his "Den," sorting and describing spiders from many parts of the world, and setting such insects as were sent to him or imprudently visited his window, which was a perfect insect-trap. From 1908 onwards he was unable to undertake the services in his Church, though he attended to all parochial business and saw his parishioners constantly. In 1910 a heavy blow fell upon him in my mother's death, after a year of painful illness ; but twice in 1912 and 1913 he was cheered by having all his five sons round him. The years 1914 and 1915 brought a variety of minor troubles which told on him a good deal, and during 1916 he began to fail more rapidly, and at last resigned the attempt to keep up with the various kinds of business which he had done with so much ease during most of his life. On October 7th he visited his "Den" for the last time, and on the 19th made the last entry in the Diary which he had kept without a break nearly all his life. From this time onwards he rapidly became more helpless, and on March 9th, 1917, passed peacefully away, in his 89th year.

His was a good life to look back upon, full of keen and varied interest. Until the last year or two he never seemed to grow old in mind, but remained, as ever, enthusiastic,

warm-hearted, outspoken, full of fun and life, delighting to share his fun with others, and always ready to help or to give pleasure in whatever way he could. He was staunchly loyal to what he regarded as the fundamental principles of Churchmanship and Conservatism ; but though he sometimes spoke strongly about those who held other opinions on these and other subjects, there was no malice in him. He took strong views, and did not give them up easily ; but anything that might seem dogmatic in his manner was not more than superficial, and he ordinarily displayed a fine old-world kindliness and courtesy, while his unfailing sense of humour always prevented him from taking differences too seriously. He died beloved by young and old. The spirit in which he lived can best be summed up in the words of a cutting pasted inside the cover of the Prayer Book which lay on his writing desk :—"Look at your mercies with both eyes, at your troubles with only one ; study contentment ; keep always at some useful work ; let your heart's window be always open towards Heaven."

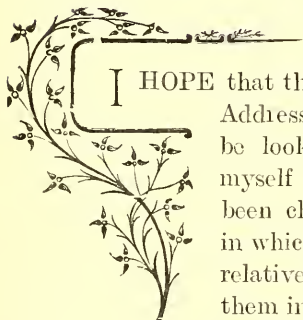




Anniversary Address of the President.

By NELSON MOORE RICHARDSON, Esq., B.A.

(Read May 8th, 1917.)



I HOPE that the fact that this is my 13th Annual Address to you as your President will not be looked upon as unlucky, either for myself or the Club, though the year has been clouded by the misfortune of War, in which many of our Members have lost relatives and friends. I would offer to them in the first place our deep sympathy. We have again held only our three indoor meetings, and the British Association, which has much resemblance to a Field Club, though on a larger scale, has this year decided to entirely forego its Meeting, which was to have been held at Bournemouth. I some time ago suggested that

our Club should also lie dormant during the war, but the plan did not commend itself to the majority of those present at the meeting at which I spoke of it. I regret to say that we have lost by death 8 of our members, as well as one Honorary Member. Amongst them are two of our few remaining original members, Rev. Octavius Pickard-Cambridge and Dr. John Moorhead. Mr. Cambridge was a Fellow of the Royal Society and one of our most distinguished members. There is hardly a volume amongst the 37 of our Proceedings that does not bear testimony to what he has done for the Club, and for science generally, and this is not confined to his numerous and valuable papers on his special subject of spiders, on which he was one of the greatest living authorities, but we find also papers from his pen upon Botanical, Zoological, Archæological, and other matters. He acted as Treasurer for many years, at a time when the Club managed to exist and flourish without any printed rules, and it was owing to his initiative that those we at present possess came into existence. I could not possibly do justice to him here, but must refer you to a notice of him which will appear elsewhere in this volume. He was one of my oldest friends in Dorset, and I have many pleasant memories to look back upon in connection with him. Dr. Moorhead, another old friend, was more connected with the Club in its earlier days. He was much interested in Geology, especially that of the neighbourhood of Weymouth, but his life was such a busy one in regard to his profession, that he had but little time to cultivate his favourite science. His long and successful connection with the Weymouth Royal Hospital is well known. Of the others whose loss I have to record, Lady Williams is the oldest member, having joined in 1884. She and her husband have always taken great interest in the Field Club and in the Dorset County Museum, which owes much to his help and support. Many of those present will remember our Meetings at Bridehead, and the kind hospitality shown to us by our hosts. Mr. George Clavell Filliter, who joined in 1889, was very helpful when the Club visited Wareham, which it has

done on several occasions. To Rev. William Miles Barnes, the son of the Dorset Poet, the Club is deeply indebted, both for his papers on various Archæological subjects, especially ancient records connected with Dorset and Church Bells, and for his work as Editor of the Proceedings during several years. The splendid series of photographs contained in the volumes of the Dorset Photographic Survey, are due mainly to his initiative and energy. A notice of his life and work will be found in the last volume of our Proceedings, so that I will not attempt to say more here. Mr. A. T. Manger joined in 1890, and Mr. Thomas Shepherd in 1896. Rev. William Floyer Cornish often attended the meetings of the Club and took much interest in its Proceedings. I have lost another old friend in our distinguished Honorary Member, Mr. Clement Reid, F.R.S., who has been more amongst us than most of our Hon. Members, and whose interest in our Club is shown by more than one Paper in our volumes. He was, in the first place, a geologist, and has done much work in Dorset and elsewhere as a member of the Geological Survey. He was the leading authority on fossil seeds and their evidence of former climatic conditions, and is the author of numerous scientific books and papers. His last work for the Club was in connection with the Elephant Trench at Dewlish and its excavation, on which he contributed a report to our Proceedings. He was one of those valuable men who have travelled a little outside the beaten paths of Geology, and investigated many subjects lying on its borders which are usually neglected. He was elected in 1900.

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ZOOLOGY.

The discovery of a rare slug (*Limax tenellus*) in a Scotch pine forest in numbers, after it had been lost sight of for 56 years, and its subsequent occurrence in other pine forests, is a striking proof of the fact that animals are often looked upon as rare from ignorance of their habits, and when these

are known, they may be found to be in reality extremely common. Another slug, the shell-bearing and carnivorous *Testacella Maugei*, which occurs in Dorset and was described and figured in an early volume of our Proceedings (v., p. 136), has been found in South Africa, but it seems probable that it was introduced by man's agency. The Report of the Danish Ingolf Expedition on the *Crustacea Malacostraca* of the deep sea round Greenland, Iceland, and the Faroe Isles has lately been published, and describes a large number of new species, with much general information about the family. Migrations of insects are not often observed in this country, though many individuals do come over from the Continent, judging from the numbers that sometimes appear here; but in North America huge swarms of butterflies, dragonflies, and flies appear to move southwards in the autumn. These migrations also take place elsewhere; *e.g.*, in the Report of the South African Museum for 1915, lately issued, is an account of an immense swarm of moths containing at least 20 different species of Noctuidæ, which appeared suddenly on a wide sand belt and passed quickly on. The object or advantage of these insect migrations seems difficult to determine. Experiments with birds in South Africa show that they will eat, when hungry, nauseous insects, which they would not otherwise touch, so that the gaudy colours which give warning of the nauseous taste of some insects seem to afford only partial protection. Hunger undoubtedly as a rule alters one's views as to what is edible, though in the case of many caterpillars, they will die rather than eat the leaves of any plant which is not their usual food, though one can hardly think that it would really be poisonous to them in most instances. Much consideration has been lately given to the best means of extending our shore fisheries, which produce such large quantities of valuable food. The transplantation of shell fish, such as mussels, has also been encouraged, as it has under certain conditions a wonderful fattening effect; and if reared in sewage-polluted feeding grounds, they can be easily cleansed and rendered innocuous by a short sojourn

in uncontaminated waters. This appears also to be a very profitable business, as well as a source of food supply. It is found that the growth of plaice is much quicker upon such parts as the Dogger bank than in shore, and if they could be similarly transplanted, good results might be expected. An interesting and successful feat is the rearing of a second generation of plaice in captivity at the Port Erin Biological Station. About 18 plaice were reared from eggs produced and hatched in the tanks in 1914, and these, about 10½ in. long, have now spawned, the eggs being a little small, but developing normal embryos and larvæ. The catalogue of African fresh water fish recently issued by the British Museum of Natural History includes no less than 1,425 species, as well as much general information on the subject. Some of these fish are well protected by their appearance and form in their larval stages. In one species (*Hemiramphus calabaricus*) the young fish resemble bits of weed and float about in a rigid condition when alarmed. In many fish the young are very transparent and inconspicuous. I suppose that this is the proper place to mention the sea serpent observed on June 14th, 1916, by Major O. Smith and others near Stockholm. It had a serpentlike head, larger than a man's head, and a serpent-like body about 25 metres in length, with 10 or more waves or humps. It swam at a speed of about 2 knots and was visible for more than a minute. Much evidence exists about sea serpents which would, in connection with other things, be looked upon as reliable, and it is therefore difficult to regard them as altogether mythical, though we may be uncertain as to their exact form. Turning to birds, a swallow which was marked with a leg-ring in Lancashire on July 3, 1915, was captured in S.E. Africa near Grahamstown on Feb. 6, 1916. This is the third swallow marked in England in the summer which has been found in S. Africa in the following winter, shewing that a certain number of English swallows make this long migration. Whether in the ordinary course they ever re-visit England remains to be proved. A treaty has been entered into between the

American and British Governments for the protection of birds migrating from the United States to Canada, which applies chiefly to insect-eating and game birds. A new bird to the Irish list is the Blackeared Wheatear, a specimen of which has occurred at Wexford. One of our Honorary Members, Sir Frederick Treves, has called attention to the serious damage which is being done in the neighbourhood of Richmond Park, by the American grey squirrels acclimatised there, to the fruit and shoots. They have already made their way into the open country of Surrey, and unless checked may prove as great a nuisance as the rabbits in Australia. They are, however, being destroyed by order of the Office of Works. Some interesting features of jungle life in Brazil are published by an American Naturalist. He notes the abundance of species and the fewness of individuals met with in the jungle. This I have noticed with regard to moths in the New Forest. As a rule, one meets with odd specimens of a good many species, but with but few of any particular species, in a day's collecting, though there are exceptions. He also says that a bag of jungle earth taken away and examined gradually yielded a rich harvest of small life, such as small insects, &c. The Presidential Addresses in the Zoological and Physiological Sections of the British Association dealt with the subjects of Heredity, and the Analysis of Living Matter through its reactions to Poisons, and both, being of rather an abstruse nature, should be studied in the original by those interested. The secretion of the pituitary gland is known to have an effect in promoting the growth of the body, and it is stated that a Californian Professor has now succeeded in isolating from it a substance which has a definite power in this respect. We may yet live to see a race of giants! It has been shown from statistics that the average length of life has greatly increased in this country in the last 70 years or so. Whereas the estimated average duration of life of males was in 1840 27.15 years, in 1870 it was 28.35, and in 1900 33.63 years, and of females a little higher in each case. The chief causes

are considered to be greater care of infant life, better sanitation, temperance, general prosperity leading to more abundant and wholesome nutrition, and perhaps also more attention to athletics and ablutions. Since our supplies have been seriously threatened by submarines, much has been written about the sustaining qualities of different foods, and many lists of economical meals have been published. There are some obscure substances which are developed in plants, called vitamins, which have hitherto, I believe, eluded the skill of chemists, but are well known by their effects, and certain foods when deprived of them by over heating or otherwise are insufficient to sustain life, though no chemical change may be perceptible. This difficulty may, however, be overcome by the addition of a small quantity of some other food containing them, so that the question becomes complicated.

BOTANY AND AGRICULTURE.

In my address a year ago I spoke of Agriculture as being then the most important of the two heads of this section, and it would have been well for the country if some of the stringent measures which have been taken lately to increase our most important crops had been taken a year before. But it is easy to criticise, and far more difficult to plan successfully, especially in a complicated matter like this in which so many opposite interests are involved. The claims of farm labour in opposition to those of the Army, the encouragement of farmers on the one side, and a moderate price for bread and other farm products on the other, as well as many other points, require to be balanced with great discrimination, whilst the scarcity of artificial manures makes further difficulties. Peat treated in certain ways and other substitutes have been proposed, and I believe used, with more or less success, and it would seem that there are large deposits in New Zealand of a mica schist containing potash, which may be valuable for the future when it can

be brought here, but are not available in the present emergency. Much grass land could be ploughed up for wheat growing and motors could be used to save labour. Germany has, I regret to say, outstripped us in agriculture as in many other things, which will, let us hope, be set right after the war, and is said to be able to feed 70 people from each 100 acres of cultivated land, whereas we can only feed 45. This is to a great extent due to her more extensive and discreet use of artificial manures. Another great loss is through various plant diseases, which require much scientific experiment to combat them successfully. It had been thought that radium had a beneficial effect on the growth of plants, but recent experiments have shown this belief to have no foundation. We have Agricultural Colleges where scientific research is carried on, and recently a Market Garden Research station has been founded in the Lea Valley which makes experiments with the produce grown by market gardeners, in which last year tomato and cucumber growing were prominent. A better yield of cucumbers was obtained in the cooler than the warmer portion of a greenhouse in all the 4 houses which were used for these trials. Finally I would call attention to the value of nettles as vegetables. From personal experience I can state that the younger portions, treated like spinach, look and taste very like it when served up, and they are, I believe, quite as wholesome, and are easily picked with gloves, or cut down when about a foot high. They are said also to make good fodder when dried, and are being used for fibre in the scarcity of cotton in Switzerland, the 2nd growth being the best for this purpose.

GEOLOGY.

An eruption of Mauna Loa began on May 19, 1916, the smoke column being first seen at 7 a.m. and continuing until noon, reaching a height of 20,000 feet. It was accompanied by a flow of lava, which was repeated on May 21. The

crater of Katmai volcano in Alaska, where an eruption occurred in June, 1912, is described by a recent explorer as being one of the largest in the world, having a diameter of some miles and extending down thousands of feet to a blue-green lake. The Address of the President of the Geological Section of the British Association dealt with the desirability of submitting all mining plans, especially those which are required to be furnished to the Home Office, to a Geological expert, so that accuracy might be ensured, and the importance of keeping a record of all boreholes of more than a certain depth. The subjects of coal and petroleum were also included. Though there would probably be an increased production of the latter for some time to come, it is deemed probable that the supply would be exhausted, according to one authority, within 100 years. A fuel oil is now being made from peat which is likely to cause a serious depletion of our peat deposits. The manufacture of fuel oil from Kimmeridge shale does not yet seem to have reached a satisfactory stage. Coal still holds its own as regards most purposes and new coal-fields are still being discovered. One recently found on Bear Island, near Spitzbergen, is being worked, and another, of Cretaceous age, exists in the very different climate of Southern Nigeria, and will doubtless prove of great value to our South African Colonies. As regards minerals, it is to our discredit that before the war we exported much of our lead and zinc ores to be smelted in Germany and Belgium, and imported the metals from thence for our use. This caused us a shortage of zinc for brass in the early days of the war. Of tin we produce about half the total world production, and are able to export the greater portion. The mining of wolfram, from which is produced the valuable metal tungsten, which forms 18 to 20 p.c. of the modern high speed cutting tool, has been lately much developed in Cornwall.

Turning to fossils, a large number of fossil insects have been obtained from several strata in Australia of Triassic, Jurassic, and Tertiary age. These include insects belonging to new genera of the orders of Blattoidea, Protorthoptera,

Coleoptera, Hemiptera, and others, as well as the wing of a doubtful Lepidopteron. One huge Protorthopteron has a wing measuring 9in. by 3in., and was, I suppose, a sort of gigantic locust. There is also a fossil Triassic dragonfly. A third species of tsetse-fly, beautifully preserved, has also been found in Miocene shales in Colorado, where I believe many fossil insects have occurred. Either the quality of the rock, or the circumstances under which it was laid down, makes these delicate fossils rare in most strata. A new Dinosaur (*Struthiomimus*) has been received by the American Museum of Natural History from the Cretaceous beds of Alberta. It has a small head, toothless jaws, sheathed doubtless in narrow beaks, a long neck, and a backbone 13 feet long, short fore and long hind limbs, and probably somewhat resembled an ostrich in its mode of life, though it was not a bird. Another Dinosaur (*Corythosaurus casuarius*) from the same source has also been added to the same Museum. This is about 20 feet long, and has a high, rounded bony crest on its head and its skin covered with tubercles. Some portions of the jaws and head of a mammal (*Eodelphis Browni*) from the same source and in the same museum, though very fragmentary, form the most complete Cretaceous mammalian remains yet discovered. It seems a pity that these interesting fossils from British territory should not find a home in a British Museum. Now that the conquest of German East Africa is practically complete, it is to be hoped that our museums will before long acquire some of the wonderful fossils found in that region.

ASTRONOMY.

A work of much interest to Astronomers has lately been published, viz. : Ptolemy's Catalogue of Stars in his *Almagest* written about 100 A.D. For this Edition numerous MSS. have been consulted, so that it is probably a fairly correct

representation of the original work. It is specially valuable as showing the different positions of stars 1800 years ago, though doubtless with much less accuracy than at present. Both rotation and variability in the brightness of different portions have been observed in certain nebulae, but a satisfactory theory of the cause of the latter phenomenon is still wanting. The actual distance of a certain nebula (N.G.C. 7662) has been calculated to be 140 light years, which, turned into miles, represents a distance almost too great to realise and requires about 15 figures. The star having the greatest known proper motion, which amounts to 10" per annum, has been found to be a small one of the 11th magnitude. Its motion is shown by numerous photographic plates, dating from 1888. Variations in the solar rotation, chiefly periodic, have been observed, and in the early part of February, 1917, one of the largest groups of spots ever recorded was visible. Other large spots occurred at the end of May, 1916. On December 26th, 1915, a small spot appeared in lat. 59.6° S., the highest position ever noticed, the highest hitherto having been only 50.4° in 1846. An unusually fine prominence was seen on May 26th, 1916, which reached to a height of 18' or about 500,000 miles. It has been found that as a rule the melting of the polar caps of Mars is most rapid at times of great sunspot development, when also solar radiation has been shown to be most intense. The 9th satellite of Jupiter is found to be from 11 to 17 miles in diameter, the 7th and 8th being 17.5 and 18 miles in diameter respectively. Photometric observations of Uranus have revealed a variation in its light to the extent of about .15 magnitude in the course of .451 of a day. This is supposed to be due to its rotation presenting sides of different brightness, as the period agrees fairly well with that derived from other considerations. Many theories which have been accepted as undoubtedly true seem to be in a state of change or modification owing to recent discoveries, and there is some reason to think that the Newtonian theory of gravity itself may have to be modified in some respects. Certain

delicate experiments have tended to show that when a large mass attracts a small one, the gravitative force between them increases slightly as the temperature of the large mass rises, to the extent of about twelve millionths of itself for each degree centigrade. Also that there is a slight alteration in the force of gravity when the bodies are in rapid motion. These alterations, though slight, would make a considerable difference where astronomical bodies are concerned, if confirmed. A further suggestion is as to the slight bending of a ray of light by gravity, but this seems at present to rest on an insecure foundation. Several meteors have been recorded. On May 20th, 1916, a fine green meteor moving from over the S.E. coast of Ireland to the English Channel, S. of Devonshire; one of the size of Venus on July 8th, seen at Bristol; a meteor shower, in which a hundred were counted between 11 and 12 p.m. on June 28th, seen at Birmingham, and elsewhere, being the richest shower recorded since 1903, a very brilliant one on October 3rd, seen in Devon and Cornwall, and also as far north as Huddersfield. Two were seen on October 20th, in Surrey and Hertfordshire; one on December 19th, in Montgomeryshire; one on January 4th, seen from London and Liverpool, and several on March 14th, 15th, 19th, and 27th. A meteorite, the half of which, weighing $3\frac{1}{2}$ lb., fell in Egypt in August, 1916, making a loud whizzing noise, is an amorphous silicate, grey in colour, and contains microscopic particles of iron, which affect a magnet. A catalogue has lately been published of the Chicago collection of meteorites, which is now the finest in the world, containing representatives of 657 falls, and a total weight of $7\frac{1}{2}$ tons of meteoric matter, the largest mass being the Quinn Canon (Nevada) iron of rather more than $1\frac{1}{4}$ ton. A very fine telescope is in course of construction at Victoria, British Columbia, with a mirror of 73 inches in diameter, and most elaborate and easily working moving machinery in spite of its great weight, which amounts to about 45 tons. It is hoped that the telescope will be in working order by the ensuing summer.

METEOROLOGY.

The year 1916 was, generally speaking, a wet one in this country, the rainfall being far in excess of the average at most stations, and slightly below it at only a few. The excess occurred chiefly in the S. of England, the centre of Scotland, and the S.W., N.W., and E. of Ireland. The fall at Montevideo, Chickerell, in 1916, was 34.10in., being 1.62in. less than in 1915, but 4.47in. above the average for 18 years, which was 29.63in. at that station. It is remarkable that the two highest falls in 24 hours during 19 years' observations should have been recorded there in the same year, viz., one of 2.52in. on August 29, and one of 2.00in. on December 20th, 1916. Before that, the highest fall was 1.98in. on October 23rd, 1915. June was an unusually cold month, and with the exception of June 19th, 1903, the Greenwich records show no June day colder than June 12th, 1916, for 75 years, the thermometer not having exceeded 50°. The early part of the year 1917 has also been cold, with long continued frost, and very low temperatures from 2° upwards were recorded in different parts of England. Frost occurred on 52 nights in the 3 first months, as well as often in April. Some interesting aeroplane observations on clouds tend to show that cirrus and cirro-stratus consist of thin snow. When cumuli attain a height of 6,000—10,000 feet from top to bottom, they develop into thunderstorms. The war has given much opportunity of studying the propagation of sound in the atmosphere. The noise of the firing has been heard at great distances, the highest I have seen recorded being the firing in the Somme valley, which is stated to have been heard at Winchester and Ringwood (200 miles) and at Wendling in Norfolk (220 miles). The spring and summer are the best seasons for transmitting sound, the winter the worst. There appears to be generally an area of irregular shape, over which the sound is audible, surrounded by a silent ring-shaped area, outside which latter the sound is again audible. This "silent region" varies in its distance from the source, but at the

siege of Antwerp on October 8th, 1914, extended between about 60 and 100 miles from the source of sound. Further than 100 miles off, the sound was again audible. Sometimes the "silent region" consists of patches only. In the great London explosion of January 19th last, the sound areas were very irregular in shape, the distance of the inner margin of the silent region varying from 12 to 65 miles, and being from 16 to 54 miles broad. The greatest distance at which the sound was heard was 121 miles. Displays of *Aurora borealis* were observed in Scotland on August 22nd-23rd, 1916, at Bristol on August 27th, and at Waterford, Edinburgh, Bristol, and Oxford on January 4th, 1917.

ELECTRICITY.

The subject for the Cecil medal which is awarded this year, viz.: "The more recent applications of Electricity in the present war, especially in the treatment of diseases and wounds arising therefrom," has brought much interesting information in the papers submitted for the competition, shewing the great part played by electricity in the war. There are also many developments of it which it is important to keep secret, so that competitors who happen to be acquainted with them through their official connection with war work are debarred from referring to them. With regard to other matters, a recent publication of the Survey Department of Egypt gives particulars of a magnetic survey which has been carried out in that country since 1908. The first direct determination of the longitude of Washington, referred to Paris, has been made by wireless between the two places, situated 3,840 miles apart, the result differing from the accepted longitude by about six hundredths of a second only. The signals received at Paris are stated to have been much clearer than those reaching America. In connection with the electrification of the N.E. Railway the trials have been satisfactory, a goods train of 1,400 tons attaining a

speed on the level of 26 miles an hour, with other rates on gradients. More experiments of the effect of electricity on crops have been made, one on an oat crop, with the striking effect of an increase of 30 per cent. in grain and 58 per cent. in straw in the part electrified. It has been discovered that there exists in the atmosphere, entering it from above, a radiation which has several times the penetrating power of that given off by radio-active substances. We shall, however, doubtless hear more of this later on, after the war, which has at present prevented further investigation.

CHEMISTRY.

Chemistry has also played a great part in the war, from the gas which was introduced by the Germans and its antidote used in the gas helmets, to the materials used for explosives. Also in the invention and manufacture of things hitherto made and imported from abroad, such as certain dyes and medical preparations, artificial silk made from cellulose, synthetic or artificially made perfumes, camphor, rubber, and many other substances in which Nature has been successfully imitated. Synthetic indigo, to take one instance, has almost ousted the natural vegetable product from the market, though I believe that the latter has some superior qualities. Another industry rather specially called out by the scarcity and high prices caused by the war, is the utilization of waste products; for instance, it is stated that 1,000 tons of glycerine, which is in great demand for the manufacture of explosives, are obtained from the fat in the food remains from military camps, which used to be given away or wasted or sold for a small sum. This amount would be sufficient for no less than $12\frac{1}{2}$ millions of 18-pounder shells. Some accurate experiments to determine the freezing point of mercury gave the result as— 38.873° Cent. A process, which would if successful be of considerable importance to Dorset, is a new method of deodorising the oil obtained from Kimmeridge shale, by getting rid of the sulphur, but further experience is necessary.

ENGINEERING.

Aeroplanes have been so much used in the present war, that much must have been learnt about them by practical experiment, but any knowledge acquired in this or other ways would necessarily be kept carefully secret. They seem to have become much more stable than formerly, and can be used in ways which would have been impossible a few years ago. There is still, however, much room for improvements. We have fortunately had an opportunity of studying at leisure the make of the Zeppelins brought down during the raids. These enormous airships, some 680 feet long, can hardly be said to have proved a success in war, and, considering their cost, have done but little actual damage, though for "frightfulness" they take a high rank. With regard to sea-ships, it has been attempted to construct one of concrete with steel framing, but I do not know whether it has met with much success. Barges have been made of this material and have been regularly used, but it would seem unsuitable for a large ship. A bridge over a river has lately been completed on the Great Central Railway, having a Scherzer rolling-lift opening span, weighing 2,900 tons, probably the largest in the world, giving an open waterway 150 feet wide. It can be opened or closed in 3 minutes by two electric motors of 115 horse power each. A new and very valuable article of equipment in the war is the helmet now worn by our troops. It is made of steel, and, with its inside padding of felt and wadding with rubber studs, weighs 2lbs. An exhibition of glass, held at Sheffield last December, called attention to the great development of glass making, especially glass for optical and other scientific purposes, in this country, since the beginning of the war. Much of this was previously imported from Germany, but we shall in future be able to supply ourselves with this important article. British sands have been discovered which are nearly if not quite equal to that from Fontainebleau for glass making for all except optical glass. In view of the scarcity and the restrictions on the

use of petrol for motors, various other substances have been partly substituted for it with success. Experiments have been made to test the value of dry powder fire-extinguishers in putting out such fires as are likely to be caused by bombs. The powders used generally contained a large proportion of sodium bicarbonate, and the result arrived at was that water was a much more reliable extinguisher, the powders being very limited in their action. Water also wetted the surrounding material and tended to prevent it from catching fire.

GEOGRAPHY.

The President's Address in the Geographical Section of the British Association was on the subject of surveying. He estimated that at the present time one-seventh of the land surface of the globe had been accurately surveyed, as compared with one-thirtieth in 1860, and that only one-seventh now remained entirely unsurveyed and unmapped, whereas in 1860 one-half of the land world was in this state. The rest is mapped, but not with accuracy. The Royal Geographical Society has contributed much to this result by the loan of instruments to 331 expeditions, and instruction in their use, as well as by grants of money and general assistance and encouragement. On April 15th, 1916, 27 members of Sir Ernest Shackleton's party arrived at Elephant Island in Lat. $61^{\circ} 10' S.$, their ship the *Endurance* having been crushed in the ice and sunk. As provisions were short, he left in the ship's boat with 4 others to obtain help, and the party were fortunately rescued on August 30th. About 200 miles of new coast were discovered, but the full results of the expedition are not yet published. The *Aurora*, the other ship connected with this expedition, has returned safely, but with the loss of some of the members. I should like here to mention that I have had the pleasure of making the acquaintance of an Antarctic explorer, Lieutenant Kennedy, who was attached as magnetic observer to the Australian

Mawson expedition, which returned early in 1914. He has given me a great deal of interesting information about life in the Antarctic regions, one of the chief, and I should think most unpleasant, features being the tremendous force of the wind, which much surpasses anything we get in this country. The compass, which is weighted to keep it horizontal, tends to lie if left to itself so nearly in a vertical position that its horizontal pull towards the magnetic pole is very slight. The result is that a very small cause deflects it, and when near the pole it varies extremely in its direction, and does not seem to be of much use as a guide. Lieutenant Kennedy reached Australia just in time to take part in the war, with the result that he has been in the Montevideo Australian Convalescent Camp opposite my house for some time past, where we have made so many pleasant and interesting friends, amongst both officers and men. Turning now to the Arctic circle, a large tract in Alaska has during the past six years been carefully mapped and described, under great difficulties of climate, by the U.S. Geological Survey. It is stated that the temperature ranges from 96° Fahr. to -76° , that the earth becomes frozen to a depth in places of 300 feet, a few feet at the surface only thawing in the short summer. Yet gardening is successfully done. Mining is, however, the chief industry, especially gold, silver, lead, antimony and tin. Land north of Alaska has been mapped by the Stefansson expedition, who have discovered large copper fields. In Central Asia many writings on wood of the 3rd Century A.D. have been found in a sand-buried site, and the old Chinese route, by which they brought their silks to Central Asia and the Mediterranean, has been traced by the copper coins and bronze arrow-heads found. Some of these wood slips, nearly 2,000 years old, were found in rubbish heaps, preserved under only a few inches of gravel or débris owing to the extreme dryness of the climate. An expedition to Easter Island has measured and described some of the stone terraces on which stood the gigantic stone statues, weighing from 10 to 40 tons, now all thrown down. Two of these

are in the British Museum. It also collected information from the inhabitants; but the ancient writing, of which about 15 specimens on wooden slabs are known to exist, has not yet been interpreted. The whole social condition of the island was permanently upset by a Chilian slave raid about 1862, which carried off half the native population, and many of the old customs and ways are now hardly known.

ARCHÆOLOGY - AND ANTHROPOLOGY.

The fossil human skull found at Talgai, Queensland, has been cleaned from a hard mineral incrustation, and is considered to be that of a boy of about 16 years of age. It nearly resembles in general conformation some types of modern Australian aboriginal skulls; but in the great development of the front portion of the jaw and the size of the teeth it is more primitive and apelike than any other known skull except the Piltdown. The capacity of the brain (about 1,300 c.c.) does not, however, differ from that of many modern Australian aboriginals. Portions of a second skull of *Eanthropus Dawsoni* were found in the Piltdown gravel by the late Mr. Dawson, and have been presented to the British Museum (Nat. Hist.) by our Member, Mr. F. Du Cane Godman. The Address of the President of the British Association (Sir Arthur Evans) deals with the origins of European civilization, and includes an account of the wonderful discoveries of Palæolithic paintings found in caves in Spain, where, besides animals, human figures occur in abundance. Bands of archers opposed to each other, women clad in gowns and sashes, uniting in a dance, bowmen with plumed head-dresses also dancing, hunters with dogs or jackals, are portrayed. Many of these things we should be inclined to refer to a much more advanced period, but they are said to be undoubtedly of Palæolithic date, to which the only garments previously attributed would probably be skins. The chief colours used were charcoal and red and yellow

ochre. In some cases the paintings are on the roof of the cave and must have been done by artificial light, in further evidence of which stone lamps have been found. The discovery of five money cowries, pierced for stringing, in an ancient burial mound on the Tennessee River in Alabama, has given rise to much speculation as to their origin, the placing them in graves being an old-world custom and the shells themselves being confined to the old-world hemisphere. It has been suggested that the mound is later than the date of the discovery of America by Columbus, in which case no difficulty presents itself, but this seems uncertain. The report of the Yale University expedition to Peru has lately been published, and describes the wonderful remains which have been found in the burial mounds and caves. Most of the mummies were placed in a contracted sitting position. The pottery, imitating many natural objects in shape, is well known, but the textiles of similar date, perhaps somewhat before the commencement of our era, are less familiar. These rival the Coptic cloths in colours and manufacture, and are found in the greatest variety. They are made of llama's wool and of vegetable fibre, just as the early Coptic cloths of a little later date are made of wool and flax. The absence of any kind of writing amongst the Peruvian remains makes it difficult to decide the date with any accuracy. The massive and splendid buildings of early Peruvian times are also described. Terrace cultivation and irrigation were carried out on an extensive scale in Peru in the Inca period.

GENERAL.

The advantages which Germany has gained in the present war through attention to science and scientific research, and the importance which these subjects have attained amongst us in connection both with the war and industrial matters, have led to the foundation by the Government of a department of Scientific and Industrial Research for Great

Britain and Ireland, which is to be supplied with large sums of money for carrying out its objects. Scientific Research has been hitherto so little valued in this country that it has been left almost entirely to voluntary effort, and it is only comparatively few who could afford to devote to it the energy and time it requires. It is to be hoped that the lesson of the war will remain with us, and that Research will never be allowed to sink into its former condition. The results of Research are, in their nature, necessarily uncertain, and many of the investigations undertaken are apparently unproductive, but a certain small proportion are of such immense value as fully to justify the whole. Many of the great companies in America support a large Research laboratory, but in England they have been very few up to the present. They will doubtless, however, now increase in numbers and efficiency. Science is also becoming more prominent in school work, which will in time cause its true value to be more generally appreciated, and, it may be hoped, diminish the short-sighted policy of obstruction to Research amongst Labour organizations, which often proves a hindrance to progress. The metric and decimal systems have been adopted by various firms in America with a view to facilitating the supply of goods to France and other countries where they are used, and the same thing seems to be on the increase in this country. Much as we may dislike the idea of parting with our old-established yards and inches, it would probably make a considerable difference in our trade if we were to make up our minds to do so. It would probably be long before the old measures absolutely died out, for, as has lately been pointed out, even in France the old Paris inch is preserved in the sizes of stockings, the width of cloths, and elsewhere. A step in another direction is the establishment of a School of Oriental Studies, which will doubtless serve to bind us more closely to our vast Asiatic possessions and to our talented Eastern Ally, Japan. In this connection it is interesting to note the preparation of a series of gramophone records of several Indian languages, by order of the

Indian Government. I do not know whether any accurate experiments have been made, or have even been possible, as to the gain or otherwise from the Sunday labour which has been in so many cases carried on during the present war, as regards the industrial fatigue and capacity of the worker, though the subject has been much considered ; but a case has been cited of many years ago when, in surveying the boundary line between the United States and Canada, work was sometimes carried on for several weeks without any Sunday stoppage, and it was possible to measure accurately the work done in foot-pounds. It was found that the actual amount of work done when the men worked only for six days in the week was practically the same as when they worked for seven days. For the men themselves, the rest day would undoubtedly be an advantage. In my address last year I spoke of the visit to Australia of the British Association. This year Australia is with us under very different circumstances, and many thousands of her sons have been successively my nearest neighbours. I have to-day one more pleasure to add to the great gratification and interest that I have derived from them during the last two years, in congratulating one of their number, Warrant Officer W. Leeming, in charge of the Massage and Electrical Treatment Hut in Montevideo Camp, on his success in having secured the Cecil Medal and Prize by an excellent essay on the subject of "The more recent applications of electricity in the present war, especially in the treatment of diseases and wounds arising therefrom." I should like to mention that the medal and prize of £10 were awarded to him by the unanimous verdict of Lord Eustace Cecil and the Trustees, as well as by the Electrical Expert to whom the papers were submitted. I am myself very much pleased that this medal should go to Australia, where it will form a small memento of their visit to England, and I hope also a bond of sympathy with the Dorset Field Club.



SOUTH WALKS, DORCHESTER.

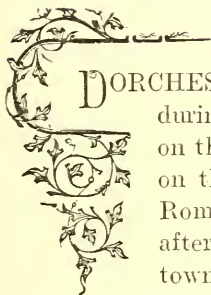


The Walks and Avenues of Dorchester,

WHEN AND BY WHOM PLANTED.

By **ALFRED POPE, F.S.A.**

(Read December 12th, 1916.)



DORCHESTER, the Durnovaria of the Romans, was during the 16th and 17th centuries surrounded on the South, East and West sides, and partly on the North side, by the remains of her old Roman wall, flanked by deep ditches and valla after the manner of many Romano-British towns. The walls at that time formed part of the borough of Dorchester, and were claimed by the Mayor and Corporation for her inhabitants. The ditches, being outside the borough, formed part of the Manor of Fordington, and were claimed by the Duchy of Cornwall as part of the possessions of H.R.H. the Prince of Wales, Lord of the Manor of Fordington. Many conflicts arose as to the respective rights of the townspeople of Dorchester and the tenants of the Manor over the "ditches"

and with regard to the boundaries of the Manor, as evidenced by the town records and the Court rolls of the Manor. The walls, being of no further use for defensive purposes, were allowed to go into decay, and were eventually, by degrees, demolished, the stone being absorbed into other buildings; and the ditches, or some of them, were, with the consent of the Duchy of Cornwall, levelled down and used as "Walks" and recreation grounds by the town's folk, and at length, by some happy inspiration, they were planted with trees. Hence arose those beautiful walks and avenues of Dorchester as we now see them, which are the pride of the inhabitants and the admiration of the many visitors to the town.

Sir Frederick Treves, in his "Highways and Byways in Dorset," writes:—"One of the most beautiful features of Dorchester is its ceinture of green; for on three sides it is surrounded by avenues of trees—of sycamores, limes, and chestnuts. On the fourth side runs the river Frome through reedy meadows."

Mr. Thomas Hardy, O.M., makes one of his Wessex heroines say of the town:—"What an old-fashioned place it seems to be. It is huddled all together; and it is shut in by a square wall of trees, like a plot of garden-ground by a box-edging." And other writers, visitors to Dorchester, have been no less lavish in their praise of our beautiful avenues. The archæological features of the "walls" and "ditches" have been ably treated on by other members of the Dorset Field Club, namely, by the late Rev. W. M. Barnes, in his paper on "Roman Fortification, with special reference to the Roman Defences of Dorchester" (Vol. XII., page 135, of the "Proceedings"), by the late Mr. H. J. Moule in "Notes on the Walls and Gates of Durnovaria" (Vol. XIV., page 44), and by Captain J. E. Acland, F.S.A., in "Notes on Excavations at Dorchester on the site of the Roman Defences" (Vol. XXXVI., page 1); but the much-vexed question of—when and by whom the Dorchester "Walks," and the other fine avenues leading to and from the town, were planted seems still to rest in doubt; and I hope to be able, as the

result of a lengthy research among the town records of Dorchester, the Court rolls of the Manor of Fordington, old maps and plans, and other documents bearing on the subject, to clear this question up to the satisfaction of the members of the club and others.

Taking the "Walks" in the order in which they were planted, we come first to the "Bowling Alley" Walk, which, together with the West and the North or Colliton Walk, was planted between the years 1702 and 1723.

At a Court Baron of the Manor of Fordington holden in June, 1723, the following presentment was made by the Homage :—"We present that the Corporation of Dorchester have made several encroachments on the lands belonging to this Manor, particularly by planting on and inclosing two several pieces of land on the North side of the Town of Dorchester and on the West side of the said town opposite to a close of pasture called Miller's Close, containing three acres (be the same more or less), and also by making another encroachment on the lands of this Manor by inclosing a parcell of land on the West side of the trees in "Bowling Alley" containing half an acre more or less, and also by making another encroachment by inclosing and planting on half an acre of land belonging to the tenement of Mary Winsow, Widdow, lyeing at the South side of the said town and lyeing on the North side of the lands of Thomas Cooper, and also for another encroachment of a piece of land parcell of a copyhold tenement of this Manor in the possession of Mr. Edward Churchill which lyes at the West end of the town of Dorchester called, of late, Alders Sawpitt—Ordered that the several persons to be proceeded against as the law directs."

From this presentment it may be gathered that the laying out and planting the Bowling Alley Walk and the West and North Walks was completed previous to June, 1723. Hutchins, the Dorset Historian, in the first edition of his work published in 1774, says these walks were made between the years 1700 and 1712 and planted with rows of limes and sycamore trees, as are the avenues on the South,

West. and East. This is confirmed by the Bishop of Durham, who puts the date of completion as 1712, doubtless on the authority of Hutchins. By 1730 the trees must have attained a considerable size, as visitors to the town remarked upon their beauty. These "Walks" extend Westward from the old South Gate of the town 187 yards, thence Northward to the North-West corner of Colliton, 767 yards, thence Eastward to Glyde-path Hill, 167 yards, giving a total of 1,121 yards.

The trees forming these avenues are sycamores, except where they have been replaced, in more modern times, by elms and limes, several of the sycamores measuring over 9 feet in girth, 5 feet from the ground, and 90 to 100 feet in height. The following are the measurements of 6 of these trees taken by Mr. Maltby and myself on 14th November, 1916, namely, 9ft. 9in., 9ft., 9ft., 9ft., 8ft. 9ins., and 8ft. 9ins. respectively.

The next in order of planting were the South and East Walks, which were planted shortly previous to 10th October, 1743, as evidenced by the following "Presentment" made at a Court Baron of the Manor of Fordington holden on that date, namely :—"We present that by a voluntary subscription of several inhabitants of the town of Dorchester and Forthington there has since the last Court been made a walk and planted with trees from the corner of Grope Lane near the East Gate of the said town of Dorchester to a place called Gallowshill and from thence by the South Walls of the said town of Dorchester to the South Gate of the said town, and that the ground where such walk is made part thereof is the waste belonging to the said town of Dorchester and other part thereof the waste ground belonging to the said Mannor of Forthington, and the residue thereof is one acre of arable land belonging to John Hayne, one of the customary tenants of this Mannor, and parcell of the whole place tenement there, and extending East and West in the ditches there, from the said place called Gallowshill to the South Gate of the said town of Dorchester. We further present

that in order to make the said walk complete and to the intent that the same may from henceforth be enjoyed as such, William Churchill Esquire and William Templeman Gentleman, two of the customary tenants of this Mannor, have agreed each of them to give half an acre of land belonging to their respective tenements in Forthington in lieu and by way of exchange for the said John Hayne his said acre of land thus *converted into a walk* and in order thereto to surrender up by way of exchange two half acres of arable land, the one belonging to the said Mr. Churchill's half place tenement called Britton, lying in the West Ditches of the town of Dorchester, and the other half acre belonging to the said Mr. Templeman his whole place tenement called Cadrows and lying in the South Ditches of the said town of Dorchester, and for that end and purpose the said John Hayne hath agreed to surrender up his said acre of land belonging to his said whole place tenement unto the said William Churchill and William Templeman by way of exchange for the consideration aforesaid and to be held and enjoyed by the said William Churchill and William Templeman's as parcell of the said William Churchill's whole place tenement in moiety—*but nevertheless from henceforth to be used and continued as a walk for the benefit of the inhabitants of the said town of Dorchester and Forthington.*”

By an extract from the Dorchester Town Records, dated 30th March, 1744, it was ordered “that Mr. Cooper, the present Town Steward, do pay unto John Pitman ten guineas towards the railing out and compleating the new walks.” By another extract, dated June 30th, 1783, it was ordered “that the walks belonging to the town be repaired under the direction of Mr. Churchill the Town Steward, and Mr. William Bower.”

In 1829, £26 16s. was ordered to be laid out in gravel and labour for the East Walk.

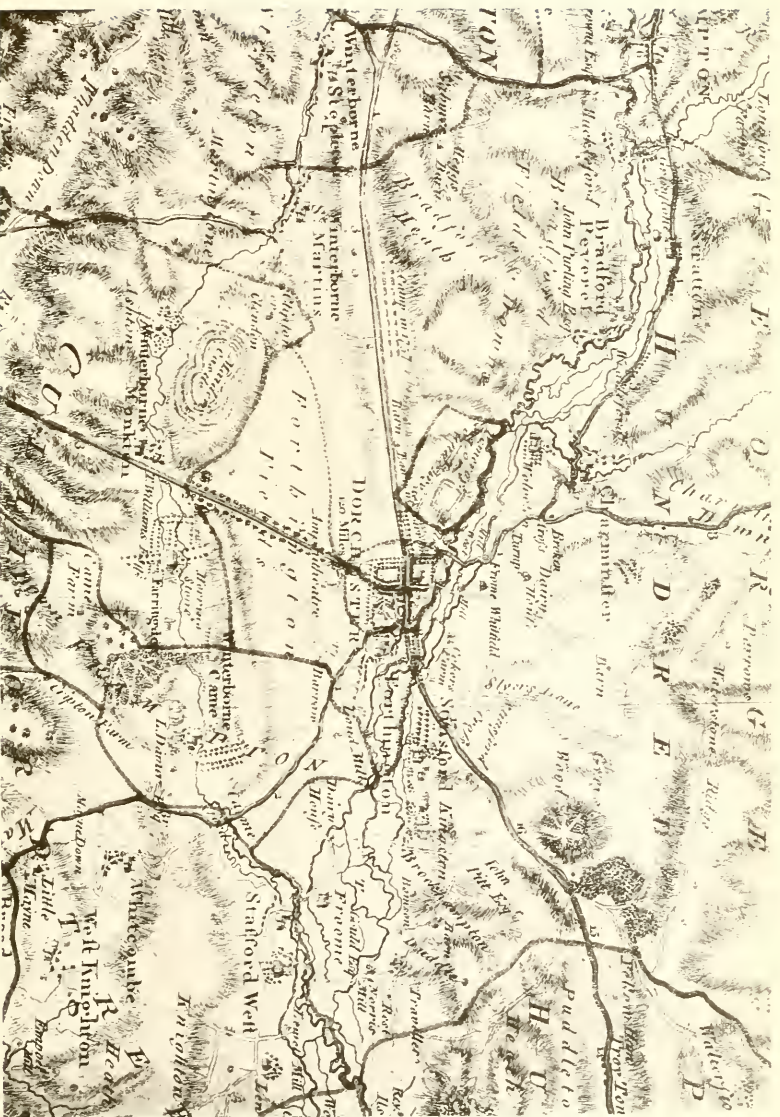
This, then, fixes the date of the planting of the South and East or Salisbury Walks. These walks extend from the South end of the South Street eastwards to Gallows' Hill,

thence northward to the Gas Works, and are 740 yards in extent.

The avenues consist of two rows of fine horse chestnut trees (a single row only is shown in Simpson's map of the Manor 1779, on the North side of the South Walks Road, the other row not being within the Manor), some being over 12 feet in girth, 5 feet from the ground, and at least 100 feet in height. I recently, with the assistance of Mr. F. T. Maltby, surveyor, took the measurements of six of the largest of these trees, and they measured in girth, 5 feet from the ground, 12ft. 9ins., 12ft. 6ins., 11ft., 10ft. 8ins., 10ft. 6ins., and 10ft. 2ins. respectively. A tree which stood opposite South Lodge, the residence of Dr. Kerr, taken down last winter, measured 9ft. 6ins. in circumference, and was over 90 feet in height. The trees are planted in rows 24 feet apart from row to row, with 20 feet from tree to tree.

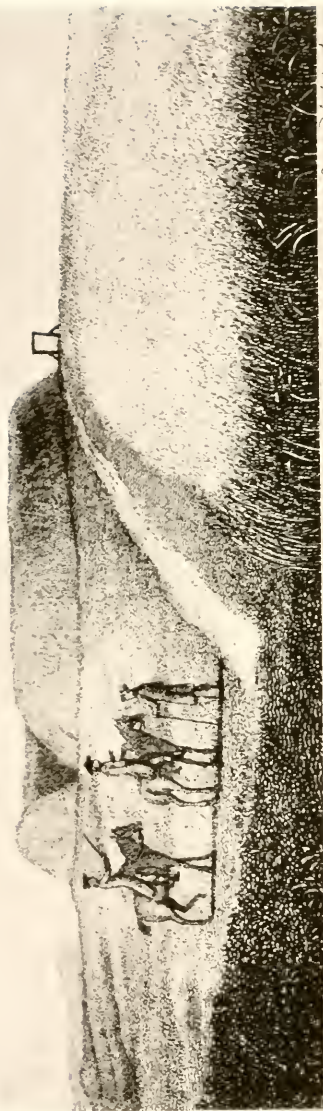
This disposes of the trees known as the "Walks" planted on the site of the Walls and Ditches of old Dorchester, and of the tradition commonly accepted that they were planted by the French prisoners of the Napoleonic wars, and of the French pennies said to have been dug up from time to time beneath the roots of the old trees now and then removed to make room for new ones. It is just possible, however, that prisoners of war taken during the Duke of Marlborough's campaigns might have had a hand in planting the West Walks, which, as we have seen, were planted early in the 18th century.

THE WEYMOUTH ROAD AVENUE, comprising two fine rows of English elm trees planted 36 feet apart and at a distance of 36 feet from tree to tree (from the Station Gate to Maumbury, these distances are 30 feet only), formerly extended along the Weymouth Road, from the South gate of the town to the confines of the Manor of Fordington on the South—as shown on Taylor's map, 1795; but when the cutting was made by the Turnpike Trustees in 1803 in order to level up and widen the road at this point, it was found necessary to remove some of the trees. The avenue was



From Taylor's Map of Dorsetshire

A.D. 1795



Roman Amphitheatre Dorchester.

From Grosses, Dorsetshire
 Drawn A.D. 1755. Published A.D. 1786

thus shortened at the South end by about 150 yards. A further curtailment on the North End from the South Gate to the entrance to the L. and S.W. Railway station took place in 1876, when the fine old elm trees then standing were replaced by limes, as seen at present.

As to the planting of this avenue, the following facts will approximately fix the date. From an old drawing in Grosse's Dorsetshire showing the Roman Amphitheatre and the Roman road which runs thence to Weymouth, drawn in 1755, the trees in this avenue are not shown, and it may be presumed were not at that date planted. In W. Simpson's map of the Manor of Fordington among the records of the Duchy of Cornwall, made from an actual survey of the Manor in 1779, a double avenue of trees extending 76 chains (say 1,672 yards) from the South Gate is shown. In Taylor's map of Dorset, published in 1795, this double avenue of trees is carried on to the confines of the Manor on the South about another half mile, and it is a curious fact that the trees, which for the first distance are planted 36 feet apart only in the rows, are for the second distance planted 60 feet apart.

I think, therefore, it may be presumed that the whole of the Weymouth avenue was planted prior to 1795, but subsequently to 1755; and that the Northern portion was planted before 1779, and according to Hutchins before 1774; the Southern part from about the first mile stone being planted subsequently, but prior to 1795.

It has been generally accepted that this avenue was planted by Colonel William Bower, of Fordington, who took a prominent part in the defence of the town and county during the threatened invasion by Napoleon.

William Bower, brewer, was a copy-holder of the Manor, between the years 1789 (at which date he is stated to have been 40 years of age) and 1798, when he was admitted tenant to the Court House Malt House, and other premises—formerly of William Spearing—"subject to the privilege of the Steward of the Manor or his deputy keeping the courts

of the said Manor in the said Court House and providing proper and necessary conveniences for holding the same ; ”— and it seems not improbable that the second portion of this avenue above referred to was planted by him, the first portion being of an older date.

BRIDPORT AVENUE ROAD.—There can be little doubt that the Eastern end next the town of this avenue to the top of the hill, so far as sycamore trees extend, was planted at the same time with the Bowling Alley and West Walk avenues, the trees being of the same age and species. In Simpson’s survey of the Manor, 1779, the double avenue is made to extend thus far. In Taylor’s map, published in 1795, the avenue is carried on to Damer’s Barn ; and it will be noticed that the trees forming the extension, from a point about opposite the town water works, where the sycamores cease, are English elms of the same kind as those on the Weymouth Road, and it is reasonable to suppose that this extension was made about the same time (*i.e.*, between the years 1779 and 1795) as that on the Weymouth Road.

The extension of the avenue from Damer’s Barn to the road leading to Winterborne St. Martin was made in 1890 by the Dorchester Avenues Society, to which the late Mr. Henry Symonds was hon. secretary. The trees are Chichester elms, and are doing well considering their very exposed position.

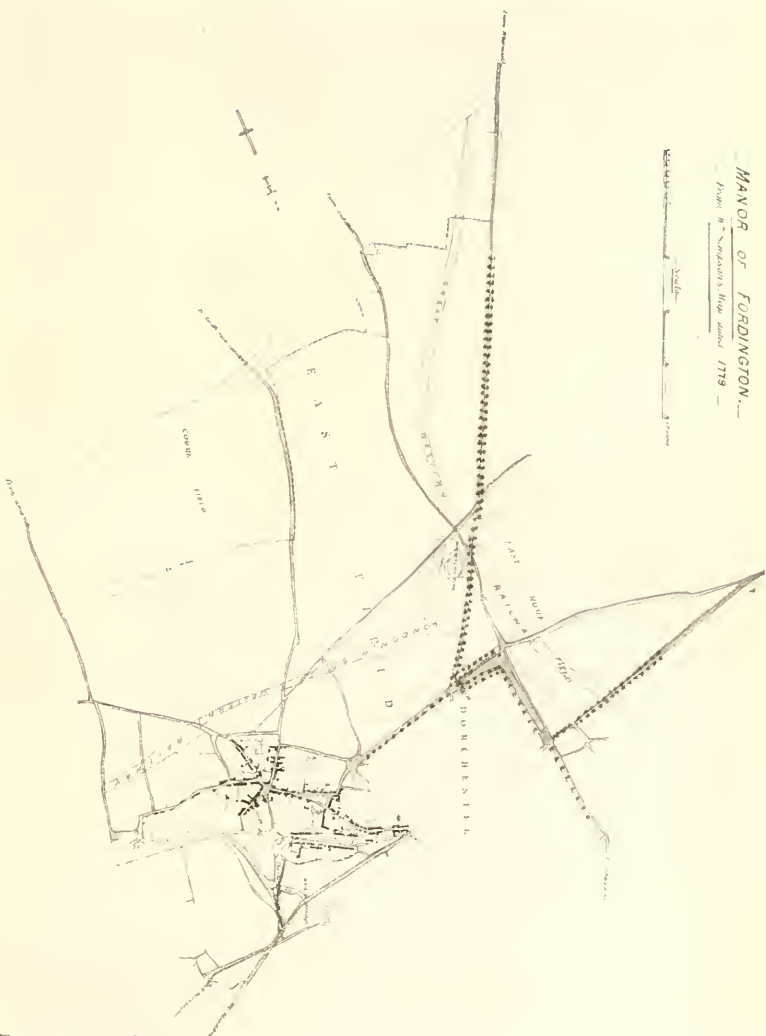
It will be noticed that several of the sycamore trees first planted on the North side of the avenue opposite Sydney Terrace, above the Railway Bridge, have been removed. This was done in 1895, by order of Mr. W. Tilley, with the sanction of the Duchy, on the ground that they were dangerous to, and obstructed the light from, the houses in the terrace.*

* Since the above was written the Town Council has, with the assistance of German prisoners, ruthlessly pollarded the fine old sycamore trees from the Barrack Keep to the railway bridge on the South side ; those on the North side, being Government property, could not be touched.

MANOR OF FORDINGTON,--

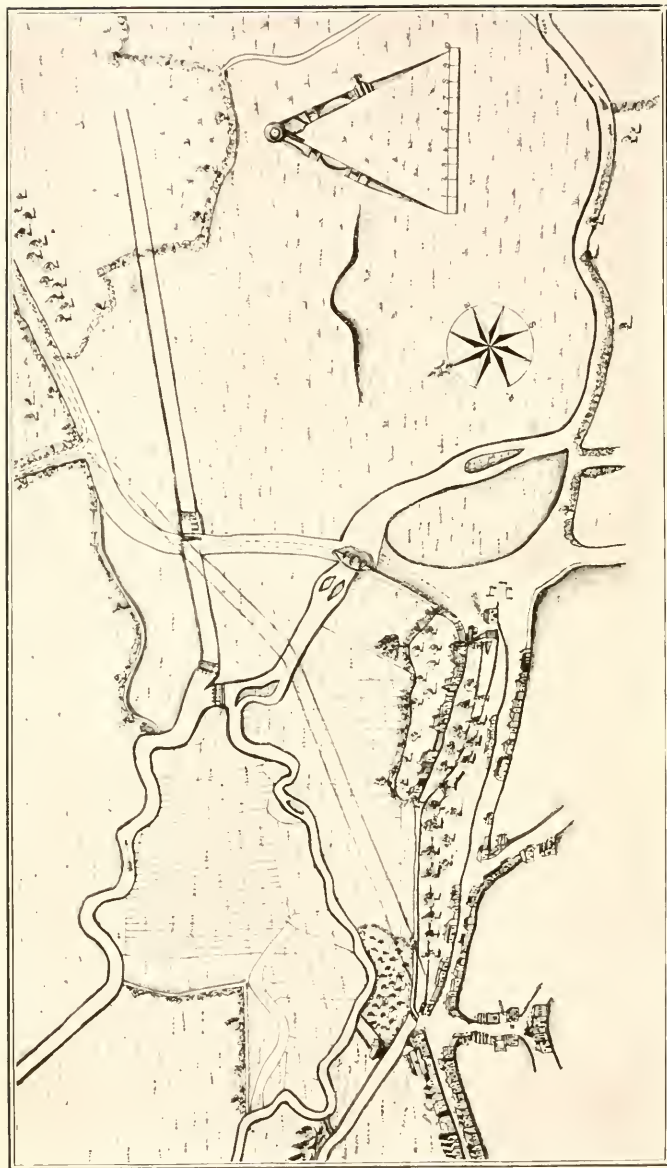
From H. Simpson's Map dated 1779 --

Scale 1 inch = 1 mile



From Simpson's Map of the Manor of Fordington

A.D. 1779



From the Court Rolls of the Manor of Fordington
26th February, A.D. 1746

LONDON ROAD AVENUE.—A very fine avenue of magnificent elm trees formerly overshadowed this road, but in 1887 they were, by order of the then Duchy Steward, Mr. George Heriot, removed as dangerous, with the exception of seven trees on the north side, which were pollarded and may now be seen as evidence of what the former avenue was like ; the present trees were planted by the Duchy a year later.

Prior to 1746, the road from Dorchester to Blandford and London went through Fordington. Passing along Holloway, leaving St. George's church on the south, it ran through the Ford below the East or Abbey Mill, thence over the "Old Bridge," which stood about 120 yards southward from the present "Grey's " Bridge, as indicated by the grass-grown mounds of débris on the east side of the river there, and joined what is now the new London Road, near where the road from Waterson intersects the same.

"Grey's " Bridge, as the date upon it shows, was built in 1747-8, when a new road was made by Mrs. Lora Pitt from the bottom of High East Street to "Stowham " Bridge, thus enabling travellers to Blandford and London to avoid the dangerous and circuitous route through Fordington over the "Old Bridge."

An interesting presentment relative to the making of this road was made at a Court Baron of the manor holden the 26th day of February, 1746, when, after reciting that by an Act of Parliament made the nineteenth year of his present Majesty, King George the 2nd, intituled an Act to enable Lora Pitt, widow, to erect a bridge or bridges over the river Frome and to make a causeway over Forthington Moor in the county of Dorset, it was among other things enacted that it should be lawful for the said Lora Pitt, at her own expense, to make a new road or causeway to branch out of the common highway between Stowham bridge and Loudon* bridge within the Manor, over and through part of the meadow ground and other the common cow pasture, belonging to the manor,

* Louds Mill and Louds Estate are in this locality.

to the town of Dorchester. It was presented and agreed that she, the said Lora Pitt, should pay into the hands of the tenants of the manor the sum of £100 to enable them to bear and pay the charges and expenses of erecting proper wyres and digging trenches and drains, rendered necessary by the erecting of such causeway, and of maintaining and keeping such wyres, drains, &c., in repair.

The new road was made and the bridge built and opened in 1748, but the avenue of trees was not planted until many years later, certainly not until after 1779, as Simpson's map of the Manor does not show them; but in Taylor's map of Dorset, 1795, the trees are shown. This avenue, therefore, now replaced by younger trees planted at a much greater distance apart, was doubtless planted between the years 1780 and 1795.

A single row of sycamore trees, shown in Simpson's map 1779, formerly extended from the South gate to the old Britannia Inn, now the Great Western Hotel. These, with the clump of trees on Beggars' Knap, where now stands "Mentone Lodge," the residence of Mr. Edwin Pope, were removed in 1876, when the frontage to the Fair Field was let off by the Dorchester Corporation for building purposes, much against the wishes of the townspeople, who memorialised the Corporation that they might be allowed to stand. The facts and the memorial are fully set out in a brochure entitled "A mare's nest discovered in the trees on Beggars' Knap," written by the late Mr. G. J. Andrews, of Dorchester, in 1876.

THE WAREHAM ROAD AVENUE.—This avenue is of alternate pink and white horse-chestnut trees, and extends from the bridge over the L. and S.W. Railway to somewhat beyond "Max Gate," the residence of Thomas Hardy, O.M., the Dorset novelist. They were planted in the year 1888, and both the trees and the cost of planting were the gift of the first Lord Alington.

THE PRINCE OF WALES' ROAD AND CULLIFORD ROAD were planted in 1876 by Messrs. A. and E. Pope, the joint owners of the Prince of Wales' estate.

THE MANOR ROAD, SOUTH COURT, AND HERRINGSTON ROAD AVENUE were planted at the expense of the owner of the South Court Estate (Mr. Alfred Pope) in 1890, and

QUEEN'S AVENUE, VICTORIA PARK, was planted in 1891 by the Victoria Park syndicate. The trees in Cornwall Road and Maumbury Way were planted in 1888.

This, then, is the true history of the far-famed "Walks" and avenues of Dorchester, as evidenced by the Court rolls of the Manor of Fordington, part of the possessions of the Duchy of Cornwall, the official records and accounts of the town of Dorchester, and the various maps of the town and the locality which have from time to time been published, and I hope it may set at rest the many doubts and surmises as to when and by whom our beautiful avenues were planted. I need hardly add that these walks and avenues are much prized and appreciated by the townspeople of Dorchester. They are justly proud of them, and take great interest in them. Of late years they have been added to and improved, both by private enterprise and the Dorchester Avenue Society; and it is to be hoped that the mania for cutting down and over-pruning the trees, which some few years ago obtained with the governing body of the borough, will not again be renewed.

I have to acknowledge the courtesy received, in my researches at the Duchy of Cornwall office, from Mr. Walter Peacock, M.V.O., the secretary, who placed the Court rolls of the Manor of Fordington and ancient maps and plans relating to the Manor at my disposal, and also the assistance given by the Rev. R. G. Bartelot, the Vicar of Fordington, who has supplied me with many useful facts and figures.

The research has been a real pleasure, though somewhat wearisome and difficult, and has taken up more time than I originally contemplated; but it has proved most interesting work, and well repaid the time and labour expended. I think I may claim to say with the poet Herrick—

"Attempt the end, and never stand to doubt,

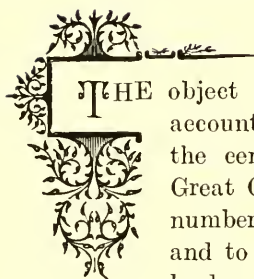
"Nothing's so hard but search will find it out."



Dorset Soldiers
OF THE
Tudor and Early Stuart Periods.

By F. J. POPE, F.R. Hist. S.

(Read 12th Dec., 1916).



THE object of this paper is to put together some account of the military forces of Dorset during the century and a half which preceded the Great Civil War, to give some details of their numbers, equipment, work, and character, and to mention some of their more prominent leaders. Little has hitherto been written on the subject. Hutchins in his general history of the county has nothing, and the Victoria History of Dorset has only a few notes, concerning expeditions, and these not the most important, sent out of the shire. Also the large histories of the British Army pass over the period in question hurriedly, being naturally rather concerned with the more scientific warfare and professional armies of

later times, though they comment on the progress in military art under Henry VIII. Thus the histories, whether local or military, are not helpful ; but much (not of course all that could be desired) has been extracted from the State Papers, the registers of the Privy Council, muster rolls filed in the Court of Exchequer, the manuscripts in the British Museum, and some documents of a miscellaneous character which contain incidental references to the matter in hand. It is inevitable that there should be gaps in these records. Some are either without indexes or imperfectly indexed, and further, in such a great mass of documents, it is easy for the searcher to overlook items of importance ; and it need occasion no surprise if full information on many points is not always forthcoming.

Two general classes of soldiers have to be considered here, viz. : the county troops or trained bands in which nearly every man might be compelled to serve, and those who were especially engaged for duties across the sea. None but the former were ever employed within the kingdom of England, while both classes intermingled might be sent on foreign service. The county troops were of course the only permanent force, always the stronger in numbers, and generally the more efficient, and they will therefore receive the greater share of attention in the following pages. It may be observed that the term 'trained bands' does not seem to have been used in pre-Elizabethan times.

The earliest view we have of the Dorset local forces is found in a series of musters held in the years 1538 to 1543 ; and we may consider ourselves fortunate that the Dorset musters of so early a date are among those that have survived, and that they are very nearly complete for the whole county. The men, about 8,000 in number, assembled in various parts of the shire, grouped under hundreds and tithings, liberties, or boroughs, and comprised approximately all the male population between the ages of 16 and 60 years. Peers, clergy, and certain judicial officers were the only persons legally exempt ; but in Tudor and Stuart times at least the

sons and servants of these were not usually expected to serve. From some instructions for holding musters contained in one of the Lansdowne MSS. it appears that the convenience of those attending was respected. The place of muster was to be so fixed that no man within the district need journey more than half a day in order to attend, and, though all the men were to appear, a householder was not to be compelled to bring all his sons and servants at the same time. Husbandry was to be interfered with as little as possible. Defaulters were to be punished. Those keeping servants were enjoined to prefer such as were "fit for archery," &c.; poor men were expected "for love of their country" to club together in providing arms and armour, and men without arms might be employed as carters, pioneers, smiths, and carpenters.

The purpose of the early Dorset Musters was evidently not to exercise soldiers, but to obtain a survey of the local resources in men armour and weapons, all of which are set forth in great detail in the Commissioners' certificates. The rolls are of especial interest, both because they afford the only available example of an assembly of the great mass of the male population of the county, and because they give some idea of the condition of the force previous to the systematic provision of firearms. Several thousands carried bows or bills, and in the whole array there were but six guns or hand-guns. Glancing down the lists one observes a few halberds and spears, a fair number of swords and poleaxes, some axes merely designated "haks," one survival of the ancient battleaxe, and a solitary specimen of the ragged staff. The armour was equally varied and, to some extent, a luxury. Harnesses outnumbered all other kinds of protection for the body; but there were many pieces of almayne rivets (composed of overlapping plates) from the larger country houses, and jacks or quilted coats were produced by less important men. The small headpieces called salades, sallets, or sculls were fairly common, while a few men possessed such odds and ends as a pair of splints,

a gorgett, or a gleeve ; but far more were entirely unprotected. Probably a similar body of men, equipped in not very different fashion, might have been seen at the same places on several occasions during the preceding hundred years or more.

Everyone provided, or was called on to provide, men and equipment according to his estate. There were knights and esquires who maintained twenty to thirty men-at-arms ; but these were exceptional, and frequently the larger land-owners contributed no more than half these numbers, or perhaps half a dozen mounted archers carrying bow and arrows, sword and dagger. The lesser gentlemen, merchants, rich farmers, and the better sort of yeomen were usually held responsible for a well-armed and protected man or two either mounted or on foot. Those still lower in the social scale brought to the muster merely a bow and arrows or a bill ; and the poor, having absolutely nothing, came empty-handed. There is frequent mention of the tithing harness, often accompanied by arms, which were the property of the tithing and appropriated to the arming of some of the poorer inhabitants, and for some reason the parson of Long Crichel had to send a bow and twelve arrows. Some scores of aliens appeared in the ranks, either French or "Douche," the latter term including perhaps more than one nationality ; but none of the aliens were classed as effectives. Throughout the muster rolls the "able" are distinguished from those who from age or other cause were not considered fit for ordinary service ; but the system of classification was not uniform in all the districts. From a Roy Roll of Henry the Eighth's reign, however, it appears that from all the heterogeneous elements which have been described, an effective force was evolved numbering 1,487 archers and 1,347 billmen, 2,834 in all, considerably less than half of whom were furnished with protective armour.

In subsequent years many returns were made of the able men in Dorset, the strength being often below 4,000 and sometimes as high as 6,000. It is remarkable that the returns show a reduction in numbers when, as in 1588 and

towards the end of the 16th century, there were especial apprehensions of invasion ; and one cannot avoid the suspicion that the local authorities in these years hoped, by minimising the resources of the county, to lessen demands from the Privy Council for troops to be sent away from home. In the Armada year for instance we are asked to believe that there were but 3,330 footmen in the shire fit for service, though eight years earlier they numbered 6,000. The difficulty was less in finding men than in finding arms for them. In 1569 bows and bills still predominated ; but between 200 and 300 arquebuses and calivers (the lighter weapons needing no rest) appear in the return of that year, and from that time forward firearms rapidly increased, so that by 1580 the Dorset trained bands possessed more arquebuses than bows. In 1580 also there were more pikes than bills. All men-at-arms now carried, in addition to their principal weapon, swords and daggers ; but only the pikemen and billmen were supplied with body armour (called corslets or jacks) and only the arquebusers with the helmets called morions. The mounted troops were always small in number, viz : 58 in 1569, and from 100 to 160 in later times, divided into the heavily armed horsemen known as demilances, petronells, or carabins and the light horse. The character of these horsemen is indicated in an order, dated in 1601, from the Council as to their equipment. Each carabin was to have " a good horse or guelding with a morocco saddle of buff or some other good leather and good furniture to y^t, a sufficient man to serve on him furnished with a good curasse and a caske, a petronell, a good sword and dagger and a horseman's coate of good cloth." The equipment of a light horseman was the same except that, in the place of the petronell, he carried " a northern staffe and a good long pistoll."

It will be convenient here, before proceeding with a general account of the trained bands under the first two Stuart Kings, to refer briefly to the organisation and training of the men in the 16th century. For military, as for civil,

purposes Dorset was divided into five divisions named after the towns of Dorchester, Bridport, Sherborne, Shaftesbury, and Blandford. Few details as to organisation are available ; but there is an unusually elaborate return of the year 1599 which will serve as a sample. In that year there were in each division 300 men of the trained bands commanded by an officer who was sometimes called a colonel, and each of these bands of 300 were apparently divided into three companies of 100 each under a captain. Auxiliary to these 1,500 of the trained bands were the troop bands unevenly distributed in the five divisions and containing rather over 2,000 soldiers under about ten captains. Apart from all these 3,500 men were 834 armed inhabitants of the "islands and maritime towns," *i.e.*, the islands of Purbeck and Portland and the ports of Poole, Weymouth and Melcombe Regis, and Lyme Regis, whose men were enumerated separately owing to their not being available for service outside their own localities. The total for the county was further increased by 706 pioneers carters and artificers, and 253 nags were supplied for carrying shot and 142 carriages for transport. These men were all footmen, the number of mounted men, called lances, not being given in the return. It will be observed that in 1599 at any rate Dorset possessed a little army complete in all details then considered essential. The officers commanding in the five divisions were in every case justices of the peace and large landowners, while the captains generally, but not always, were members of rather less influential families, and the purveyors and surveyors of supplies, the captains of pioneers, and masters of carriages were all officers of some social status. I have not noticed the appointment of any surgeon ; but there were sometimes orders for the observance of certain sanitary precautions, and there was a committee called "The Treasurers for maimed soldiers in Dorset" who paid pensions.

Though a general description of the training of soldiers hardly comes within the scope of this paper, it may be permissible to give some short quotations from letters on

the subject to the Lord Lieutenant of Dorset. They were to be instructed to "discharge their peices both readily and in good and comely sorte, and the pikemen to use their weapons in such sorte as they ought to do, and to learne to know their officers and leaders, to marche, and such other addresses as are fitt for trained soldiers." It is also directed "that the shotte (*i.e.* the arquebusers, &c.) may be taught to use their peices with false fires." In a county bordering on the sea the training must have had especial reference to resisting a landing on the coast. Men and weapons, we are told, were to be ready at an hour's notice, and on a threat of invasion trenches and bulwarks of earth were to be manned, and beacons both in and behind the trenches diligently watched. The strength of the enemy was to be calculated by the number of his ships and, if the local forces were largely outnumbered, the landing forces were to be delayed as far as possible by making new trenches till support arrived. Bridges were to be destroyed, and all cattle driven inland. Officers, however, were not to act hastily, and before taking these measures were to assure themselves that the enemy were not merely feigning an attack. Winter training was often hindered by bad weather and summer training by the needs of the husbandmen. The summer training was in 1601 reduced to one or two days only. March was considered a favourable month, and the May Games (called Robin Hood and Little John) were all through Tudor times utilised in Dorset for exercising the trained bands in shooting.

The account of the state of the trained bands under James I. and Charles I. need not detain us long. Records are rather scanty. The domestic State papers of James I. are not very voluminous, and many of the Privy Council registers are missing. There is a certificate of a muster in 1629 when the horse numbered 100, the footmen 2,350 with 1,010 corselets and 1,340 muskets. The armour was presumably apportioned to the 1,010 footmen for whom no muskets were provided, and who probably carried pikes. Whiteway, the Dorchester merchant, who was himself a lieutenant in

the trained bands, in his diary of the years 1620 to 1634 mentions many of his brother officers, including Sir John Meller and John Williams of Herringston, who were successively captains of the Dorchester troop of horse. The diarist also contributes the item that in the summer of 1629 the regiments of Dorchester, Sherborne, and Bridport were at Modbury Down under Captain Napper. Modbury seems to have been at this time a favourite training ground, as also was Launceston in the Eastern part of the county. It may be doubted if the more important gentlemen of Dorset now held commands in the trained bands to the same extent as in the previous century. Besides the mention of Captain Napper as the principal officer of three regiments, a list of defaulters in Captain Hoskyns's band at Bridport indicates that Hoskyns was in command of the whole Bridport division, and another Captain, Arthur Radford, commanded the troops training at Launceston. This is borne out by a letter among the Marquis of Salisbury's manuscripts dated in 1600 and addressed to Sir Robert Cecil. The writer states that commissioners of musters had lately been appointed in Dorsetshire, and that Mr. Browne of Frampton, who, as colonel of the Bridport division, "a place of some credit though of great charge," had performed his duty well, had not been included in the commission, and in consequence threatens to resign his colonelcy. If other gentlemen of rank in the county felt with Mr. Browne that it was not consistent with their dignity to be subject to the authority of these commissioners, such a feeling would explain why the leading officers of the foot bands in the 17th century were not of the same social standing as had previously been customary. The last return of the trained bands to be mentioned refers to the year 1640 when, exclusive of men in "the islands and maritime towns," 1,500 footmen were organised in 14 companies. It is asserted in this return that the captains of two companies in Purbeck (named Robert Swayne and John Dolling) had refused to give information respecting their bands, and that the men in the

maritime towns were few and mostly at sea. It is improbable that the last statement was true, and it may be gathered that the officers of the trained bands, like the nation at large, were beginning to range themselves on different sides in the disputes between King and Parliament. It would seem that for some sixty years or more before the Civil War the standard of military strength aimed at in Dorset was, apart from companies at certain places on the coast, a well trained and well armed force of 1,500 soldiers with a much larger reserve of men with little training and obsolete arms. It may be noted that an attempt to revive the bow was made as late as 1629 when, as Whiteway chronicles, a commissioner from the King arrived at Dorchester "about the setting up of archery."

Such description of the numbers and equipment of the trained bands as is possible on the present occasion having been furnished, mention will now be made of some of the military leaders of the county, followed by some account of the soldiers who served under them, whether in the companies of the trained bands or in the units especially constituted for operations outside the county.

All through the 16th century the names of certain families occur over and over again among the more prominent of Dorset soldiers. There was generally a Strangways of Melbury, a Trenchard of Wolveton, a Rogers of Bryanston, a Horsey of Clifton Maybank, an Ashley of Wimborne St. Giles, a Williams of Herringston, and a Uvedale of Crichel. Many of these and other names will be referred to later as commanders of Dorset levies despatched on various expeditions. Sir Giles Strangways, Sir Thomas Trenchard, and Sir Thomas de la Lynde must have been of some military repute early in Henry the Eighth's reign, for they were among the hundred nobles and gentlemen who were present at the Field of the Cloth of Gold in 1520. It must not be supposed that all the families not so far named achieved no distinction as soldiers. The squires of Bingham's Melcombe, with the exception of a Robert Bingham, who was captain of a trained

band in 1587, do not seem to have served personally ; but the family gave to the nation a distinguished soldier in the person of Sir Richard Bingham, who saw much service in many countries, and by sea as well as on land, and during the last quarter of the 16th century was, as Governor of Connaught, much engaged in fighting Irish rebels. His brothers George and John Bingham also served in Ireland, the former being killed there in 1595. It may well be that financial disability debarred many of the old landed families from taking the higher posts in the trained bands or leading men to the wars. The only Turbervill of whom I have found mention, as a soldier in Tudor and Stuart times, was one named George, appointed in 1571 to command a hundred men in Dorset; but he was not a success, for the Privy Council, writing to the Lord Lieutenant of Dorset, refer to him as one "who hath alwaies from his youth and still is gyven to his boke and studie and never exercised in matters of warre." The officers commanding in the five divisions of the county in 1587 were Sir Henry Ashley, Sir John Horsey, Sir Richard Rogers, Sir George Trenchard, and John Strangways. Of these in 1599 Rogers and Trenchard alone remained, the others being replaced by Thomas Freake, Sir Ralph Horsey, and John Browne. Sir Edward Horsey, described in the *Dictionary of National Biography* as half soldier of fortune and half pirate, may be included here, for, though his birth-place is unknown, he was a grandson of John Horsey, of Clifton, and a nephew of Sir John Horsey. He served at the siege of Havre in 1562-3 and elsewhere, and, as chief commissioner of the Isle of Wight, was responsible for the defence of the Island. An undoubted Dorset soldier of good standing was Sir Edmund Uvedale, who, being "of knowledge and experience in Martyall affaires," was in 1598 appointed Surveyor General of the county trained bands, his duty being to supervise the training and discipline of the men. There must have been others who ought to be named, but the records are not always fair to individuals. Possibly Robert Williams, son of John Williams of Herringston,

rose to a position of importance, but the only certain knowledge I have of his career is that, having followed the wars for six years at his own charge, he was in 1597 appointed to command a company, probably proceeding to Ireland. Later he lived at Bere Regis, dying in 1631.

There was a marked deterioration in warlike spirit among the country gentlemen during Elizabeth's reign, and it may be expected that they had to a large extent ceased to regard soldiering as their profession. Thomas Arundel, writing to Cecil in 1598, comments on "the ignorant justices in these parts, and especially in Dorsetshire, their harrying up and down of the people, their often chargeable and untimely musters together with their dismayed looks and speeches which strike fear into the honester sort and give hope of novelties to the beggarly and rascally sort." This was very different from the conduct of the Strangways, Trenchards, Horseys, and others of Henry the Eighth's time who, on command of the King, led their tenants and dependants to the wars without hesitation. The relations between a lord of the manor and his tenants concerning military service, about the middle of the 16th century, are exemplified in a suit in the Court of Request, which indicates that, though the feudal system was dead, its spirit survived. Sir John Marvin, lord of the Maner of Bradford Peverell, had refused to admit one John Churchill to tenements in the manor which had been held by the latter's father, on the ground that John Churchill had been guilty of misbehaviour in not joining with other tenants of the manor in following Marvin to the siege of Boulogne. Churchill pleads that being only a tenant in reversion he was not liable for such service, and that he held tenements in the manor of Frampton and had been warned by his own lord to be ready to set out with the Frampton men. The plea thus tacitly admits Marvin's claim to command his tenants, and openly admits a similar claim on the part of the lord of Frampton. If Churchill had gone to Boulogne under any leader or in any capacity he would assuredly have said so, and there can be

no doubt that he remained at home. Some additional interest in John Churchill arises from the fact that he must have been related, perhaps nearly related, to Jasper Churchill, of Bradford Peverell, who was great-grandfather of the first Duke of Marlborough.

Defects in leaders inevitably produced defects in their followers. Justices of the Peace, who were trained soldiers, would repress sternly any want of discipline, and would take strong measures with any who attempted to absent themselves from musters and so on. We hear little therefore of defaulters till the middle part of Elizabeth's reign, and then defaulting was not severely punished. At Weymouth in 1572, as appears from some proceedings in the Court of Star Chamber, men who missed a day's training had to pay a small fine, or, if the fine was not paid at once, were taken down to the sea in an ignominious fashion and douched with water. Later in the same century shirking became quite a common pastime. A captain of a trained band, it was declared, would often find that twenty of his hundred men failed to attend a muster, and claimed exemption on the ground that they had become retainers of noblemen or "gentlemen of account." A letter from the Privy Council to the Lord Lieutenant of Dorset dated in 1597 draws attention to one case of this kind. Christopher Derby, of Stirthill, the son of a man of good property, having been pressed in the course of a levy for foreign service, appeared at the muster in the livery of Lord Howard of Bindon, received his impress money disdainfully, and the next day went to the house of Colonel Brown, who commanded in the Bridport division, and there "in most contemptuous sort threw the same to the ground, using very unreverent and unfitt speeches and utterly refused to serve in regard he was retayned to the Lord Viscount." The Council directs the punishment of the culprit as an example to others.

Queen Elizabeth's method of obtaining soldiers for expeditions overseas was different from her father's. All

through her reign at frequent intervals pressmasters arrived in Dorset with orders to obtain 100 or 200 men for troops proceeding to Flanders, Spain, France, or Ireland, and the practice was continued under the Stuarts. The pressmasters applied first to the justices, who put them in communication with the constables of the different localities, and it was the duty of the constables to select the men required. Sometimes, when the occasion was of importance, the ablest men of the trained bands were demanded, at other times it was ordered that the trained bands were to be left intact, but generally there were no especial instructions as to the class of men to be taken. There were of course conflicting interests, for, while the national authorities always wanted the best that the county could afford, the county authorities were determined to send, so far as they were able, the worst. A few adventurous spirits no doubt went gladly and others went not gladly but willingly, in order to avoid worse evils at home. William Antonye of Dorchester, for instance, a well connected man, having fallen deeply in debt, preferred marching in the ranks in Flanders to a prolonged residence in the Sheriff's ward at Dorchester. The constables seem to have found a levy of soldiers an excellent opportunity for getting rid of men who were troublesome at home, such as loafers at ale-houses, good-for-nothings, and even vagrants. Few of the local gentlemen ever cared to have charge of such a crew, and the men were marched under a conductor, especially appointed for the purpose, to a port where for the first time they met the officers who were to command them. The march, at the rate of 12 or 15 miles a day, gave good opportunities of escape, either by payment to induce some one to personate the pressed, by bribing the conductor or pressmaster, or (simplest and cheapest of all) by running away home. It is curious to record that those who escaped were seldom punished,—another instance, perhaps, of the apathy of magistrates when national interests were at stake. In 1627, of 300 men levied in Dorset, presumably for the expedition to Rochelle, who left Blandford for Portsdown,

only 160 arrived at their destination, and on this occasion as much as £5 or £10 was paid for a release.

It need not be supposed that Dorset was more decadent in military affairs than other counties ; but almost throughout the latter half of the period now under consideration complaints from London as to the numbers and qualities of soldiers coming from Dorset were very frequent. Even of the trained bands it was said that "they were in some sort defective and not sorted with men of sufficiency able to bear their own charge." Again in 1598 Dorset men levied for Ireland were found on arrival to be "very evill armed and so nakedly apparalled as they daylie fall into sicknes and infirmitie," and the commissioners of muster in the county were ordered to send £3 per man to provide them with armour and clothing. Many similar criticisms could be quoted. The soldiers were often described as too young, suffering from a "maime," vagrants who run away from their captains, or others who on reaching the sea or place of service offer money to their officers to discharge them.

The national ministers were always anxious for the full efficiency of the oversea drafts, and, as the charge for their equipment fell on the county, they could always cheerfully issue lavish orders in this respect. In 1601 every hundred Dorset soldiers going to Ireland were to be supplied with 24 corselets with pikes, 40 callivers with morions and bandoliers, 12 muskets with rests morions and bandoliers, 12 bastard muskets with morions and bandoliers, 12 corselets with "billes having longe stemmes," and all with Turkey swords with best basket hilts. Also for the same occasion the soldier's "kit" was to consist of "a cassocke of good broade cloth lyned with bayes or cotton, a paire of venetians of good brode cloth lyned with cotton and lynnene, a doublett of canvas, 2 shirtes, 2 bandes, 2 paire of stockinges, 2 paire of shoes, a hatte capp." At a slightly earlier date it was prescribed that the colour of the coats was to be russet brown. It is not to be expected that these ideals were often attained, for the muster commissioners would doubtless spend as little

as they dared of the county's money. It must be admitted that the ministers in London were not niggardly in doing their share, the daily pay of a footman being eight pence and of a horseman nine pence. The rations of food were on a prodigious scale. The daily allowance for a horseman was $2\frac{1}{4}$ lbs. of bread, $1\frac{1}{2}$ lbs. of biscuit, 3 lbs. of beef, 1 lb. of cheese, $\frac{1}{2}$ lb. of butter, 3 quarts of beer, and 3 pints of wine. A footman got rather less of everything except butter and cheese.

An endeavour will now be made to recount some of the services on which these Dorset soldiers were employed, and this will form the final section of my paper. Dealing first with operations within the Kingdom, we have the bare statement that Sir Thomas Trenchard and other gentlemen of the west went to the relief of Exeter in 1497 at the time of Perkin Warbeck's rebellion. Next in point of date was the repression of the northern rebellion called "The Pilgrimage of Grace" in 1536, when 1,050 men under Sir Giles Strangways, Sir Thomas Arundell, Sir Thomas More, Sir Edward Willoughby, Sir John Hussey and John Rogers, marched northward, the force being composed of six contingents of various strengths, formed by the leaders named. There was another visit to Devon in 1549 in connection with the rebellion of that year, but the only record I have found on the subject occurs in some proceedings in the Court of the Duchy of Lancaster when a gentleman named John Dackum, of Kingston Lacy, was said to have served under Sir John Rogers, then farmer of the manor of Kingston Lacy, against the rebels in the Western parts. Dackum was a petty captain and "was hurte betwixt the eye and the nose with an arrowe." With the exception of calls of 300 men to defend Portsmouth in 1557, and of a total of the same number to garrison Ireland in later years, there was no further occasion for Dorset soldiers to march outside their county until the successive alarms of invasions which lasted from 1588 to near the end of the century.

On the approach of the Spanish Armada a thousand of the trained bands were hurried to London under Andrew

Rogers (I suppose the eldest son of Sir Richard Rogers, of Bryanston), and Dorset then had also the honour of supplying 120 demi-lances for the personal guard of the Queen. In 1595 no less than 3,000 of the Dorset trained bands were appointed for the defence of Devon, and Sir Ferdinando Gorges was put in command of them. There were some murmurings in the county when the thousand men went to London, but there was almost an outcry at the prospect of three thousand going to Devonshire, the Sheriff and Deputy Lieutenants asserting that they had in the whole county, including the islands and marine towns, but 2,500 men armed with muskets or callivers, and any additional force could only be provided with bows, bills, or pikes "wch. were dangerous to the Countrey." They further declared that at Weymouth, which was most open to the Spaniards, most of the townsmen had carried away their goods, and that women and children had abandoned the place.

Another forty or fifty years passes and we find ourselves faced with a disagreeable episode in the history of the Dorset trained bands,—nothing less than a serious mutiny. In 1640 the Scotch Covenanters were threatening the north of England; and the English army to meet them was to include 600 soldiers pressed from the Dorset trained bands. On their assembly at Shaftesbury the men were already in a state of discontent, said they had never known the train march out of the county, and refused their press money. No doubt they not only disliked being sent away from home, but distrusted the political purpose of their mission. It was at Farringdon in Berkshire, on their way to the Scotch border, that an outrage committed by one of the lieutenants named William Moone or Mohun caused the outbreak. The drummer of Moone's company had disobeyed the lieutenant's order and struck him with his drumstick, whereupon Moone cut off the drummer's hand and killed a soldier. The tale of how a considerable number of the soldiers murdered Moone is full of rather gruesome details which need not be repeated here. The other officers, who, so far as their names

are any guide, do not seem to have had any connection with Dorset, and were probably hardly known to their men, were threatened with Moone's fate and ran away. Many of the soldiers followed their officers' example and ran away also, so that when the contingent reached Selby in Yorkshire only 340 were left, besides three who were in custody, charged with the murder. The remnant at Selby were still insubordinate; and Sir Jacob Astley, who commanded the English army, noticing that they disobeyed their officers when mustering, had one of them "harquebused," as he called it. There the story ends, and we do not know anything further of what happened either to those who got as far as Selby or to the runaways. The latter, however, were offered a free pardon if they reported themselves for duty either at Selby or at Blandford.

It is a relief to turn from a mutiny to a successful venture across the Channel. The capture of Boulogne in 1544 was a big undertaking, necessitating the shipping of over 70,000 troops, who came from the southern half of England. Of these 2,957 were from Dorset, contributed by twenty-eight gentlemen of the county, among whom were included not only the principal military leaders, but also representatives of such families as Thornhill, Cheverell, Coker, Martin, Troblefeld (or Turbervill), Husye, Wadham, Bingham, and Moreton. Sir Thomas Poynings took 400 men and Sir Giles Strangways and Sir John Horsey 100 each, and among those killed in the course of the siege was Henry Strangways, of Melbury. A part of the army, including some of the Dorset men, remained in occupation of the town till 1550, and on their return were feasted ("entretayned" is the word used) in London, their departure for their homes being accompanied by the rather grim instructions to Lords Lieutenant and others "to kepe them in ordre or elles to punishe them."

None of the other oversea expeditions were on the same scale as this. In 1513 Sir William Fylo, Edward Wadham, and probably other gentlemen of the county brought or sent contingents for the important campaign in Flanders and

Picardy. The drafts for Ireland in the years 1578, 1581, 1586, and from 1598 to 1601 certainly absorbed over 1,000 men, and, it is stated, 798 were sent out of the county to various parts in the ten years ending in 1598. Dorset men also fought under Sir John Norreys in his hardly-won partial successes in Brittany and Normandy between 1591 and 1593, and in 1596 were sent to defend Boulogne on behalf of the French against the Spaniards. Levies from the county were also present (apparently ten companies strong) at the capture of Cadiz in 1596, and at the unsuccessful attack on the same place in 1625, and they shared of course in most of the wars in the Low Countries, and were once or twice required for the defence of Jersey and Guernsey. The English forces who attempted to relieve Rochelle in 1627 and 1628 included some hundreds of Dorset troops, who, if they suffered in the same proportion as their other English comrades, lost considerably more than half their number at the disastrous landing on the Isle of Rhe. Three hundred were despatched to Dover in 1623 to be embarked for foreign service, but I have been unable to ascertain their destination.

That these men, who for the most part went to the wars so unwillingly and were formed of such unpromising material for soldiers, acquitted themselves well when face to face with an enemy was proved on several occasions. We can know so little of them individually that it may not be out of place to mention two whose names have been met with by chance. John Mason, a carpenter, of Netherbury, stated in 1630 that by procurement of his brother he was pressed for Cadiz, and afterwards for the Isle of Rhe, where he was severely wounded, and found on his return home that his brother had taken possession of copyhold which should have descended to him. The other soldier was more fortunate. Francis Coffin, of Sherborne and later of Weymouth, a shoemaker, had been pressed for Ireland about 1607, and in the course of twenty years' service there managed to accumulate considerable property, no doubt in the form of loot. These two cases are likely to have been typical of many others.

It would be tedious to draw the parallels between ancient and modern times which may be inferred from these pages. It is obvious that Tudor and Stuart Dorset, in proportion to her population and resources, when occasion required, put forth great military efforts, though these efforts were sometimes impeded by a petty local patriotism and a feeble conception of the needs of the nation. I would rather draw attention to another point. It is interesting to notice how many surnames, several distinctively local, appearing in the muster rolls of the 16th century, recur among the men who are to-day embodied in Dorset regiments, and to remember that the Dorset soldiers who have formed the subject of this paper were not merely the professional forerunners, but in many cases the lineal ancestors, of those other Dorset soldiers who, with a wide outlook, unknown among their ancient predecessors, have gone to the wars of the 20th century.





The Portland Reeve Staff and Court Leet.

By **CAPT. J. E. ACLAND, F.S.A.**

(Read 20th Feb., 1917).



BEFORE describing the Portland Reeve Staffs, the property of the Dorset County Museum, something should be said of the Portland Court Leet, which is perpetuated on the Island not merely as a relic of antiquity, but as an active authority—"It is of Saxon origin, and deals with the Rights, Dues, Practices and Customs of the Manor, and with the Control and Management of the Commonable Lands." Two Courts are held every year, the authority of the Court being vested in 24 Jurymen and a Foreman, chosen from the Tenants, or Landowners of the Manor.

By the kind permission of Mr. John Pearce, of Stonecleve, I. of P., much use has been made of a pamphlet entitled "The History of Portland Court Leet," re-printed from "The Portland Year Book," 1905, and published by H. C. Murray, Straits, Isle of Portland, Price 6d.

Being a Royal Manor, the Lord or Chief is the King. The Steward of the Manor, representing "The Chief," instructs the Bailiff to summon the Court, and on the day appointed those warned, after answering their names, are sworn by the Steward, and the Foreman is chosen. The officers of the Court comprise the Steward, the Bailiff, the Reeve, the Chief Constable, the Inspectors, the Affeerors,¹ and the Haywards.²

From time immemorial an annual payment of three-pence per acre, as quit rent, has been paid to the Chief, amounting in total to £14 14s. 3d. It is collected by the Reeve, and handed to the Steward for the use of H.M. the King. There is also due to the Chief 3d. per acre when land is transferred by a process called "surrender at Court." This custom is dying out, but it is a means of transfer of property.

In addition to warning and calling the Court, the Bailiff makes a presentment of the amount of stone quarried from the commonable lands, and reports the death of every tenant of the Manor, and collects the sum of half-a-crown due to the Chief upon each death.

The Constable and Inspectors are required to see that no encroachments are made on the Common lands, that the roads and ways are preserved, and that there is no irregular working of the quarries. In case of encroachments, it is the duty of the Affeerors to fix the amount of fine, or payment of an annual rent.

All the tenants of the Manor are free-holders, the quit-rent being collected annually according to a staff, called "The Reeve Staff," marked from the entries in a rent roll, notches being cut on the staff to represent each payment. The Reeve is appointed at the Michaelmas Court, and was formerly remunerated for his services by the use of a piece of land called "The Reeve Plot" for his year of office. He

¹ Affeerors—Officers who fix the fines.

² Haywards—Officers whose duty it is to protect the enclosed lands from cattle breaking out of the Common land.

PORTLAND REEVE STAFFS.

DORSET COUNTY MUSEUM.

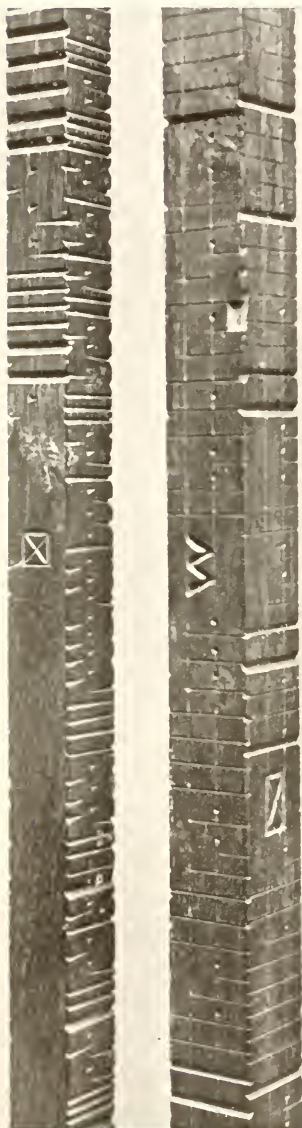


FIG. A.



FIG. B.

Fig. A. shews about 15 inches of the two staffs.
Fig. B. shews about 3 feet of the same staffs.
The various marks are explained in the text.

is always the tenant who pays the highest amount of quit rent, who has not held office before. No person ever holds the office a second time.

The use of the Reeve Staff as a method of reckoning the rents of the tenants to the King as Lord of the Manor is perhaps the most interesting of the many ancient customs which still prevail in Portland. There is now in use a Reeve book, in which the amounts of the rents are entered, with the names of the tenants ; but the Reeve Staff was invented and used in illiterate times. It is a long squared pole of deal, pine, or mahogany, on which are cut certain *signs* to represent the 5 ancient hamlets of the Island, and beneath them long and short notches and lines representing the rent to be paid by each tenant according to the order in the Reeve book, the individual amounts being separated by small dots or triangular cuts. The staff varies in length from year to year, according to the style of cutting the items of rent, and the number of tenants ; the old staffs still remaining, and much valued by their possessors, are from about 7ft. to nearly 12ft. long, and from 1 inch to $1\frac{1}{4}$ inch square. In 1885 a new method of cutting the staff was introduced in order that the length should be reduced. By this method the rent of £1 was denoted by a diagonal notch, instead of 20 straight notches. A straight notch still stands for 1s., and if only three-quarters across it denotes 9d., half across 6d. &c., and the same with the penny line or scratch.

The signs and notches are as follows, many of which may be seen in the annexed illustration, from a photograph by Mr. Bernard Griffin, Dorchester.

A hollow circle—Southwell.

A cross in a circle—Wakeham.

A cross between parallel lines—Weston.

A " W "—Easton.

A " V "—Chiswell or Chesil.

A whole notch—1s. A half notch—6d.

A full scratch—1d. A half scratch— $\frac{1}{2}$ d. A quarter— $\frac{1}{4}$ d.

Dots or cuts separate individual amounts.

The Reeve Courts are held half-yearly in May and November, and at Michaelmas the rating may be readjusted. A cottage is rated at $\frac{1}{4}$ d., a cottage and garden at $\frac{1}{2}$ d., and land at 3d. per acre. There is a tradition that the last-named rent was first imposed by King William Rufus in order to complete his castle, now known as "Bow and Arrow" Castle. The Reeve Court was formerly held at the Portland Arms Hotel, the choice of place resting with the Steward of the Manor; it is now held at "The George" Inn, and here the staff is produced by the Reeve and laid on the table. At "The George" is kept the oldest perfect Reeve Staff, marked W.P. and the date 1720. There is a fragment of an earlier staff at Southwell; it bears the initials "W.W." and date 1700. Mr. Beer, of Easton, possesses another 18th Century staff, marked "R.L. 1742" (Richard Lano), and Mr. W. Lano Pearce, of Wakeham, has the staff of his great-grandfather dated 1768.

The two staffs, the property of the County Museum, and now exhibited, were given, one by Mr. J. S. Udal, October, 1887, length 8ft. 7in., $1\frac{3}{8}$ in. square, without any date or name to show when it was used; the other staff was presented by Messrs. Williams, Thornton, and Sykes, Bankers, February, 1897. It is 10ft. long, 1 inch square, and bears the name "Philip Dodson, Reeve, 1852." It was made apparently rather longer than necessary, as about 4 feet are left blank on two sides.

The office is still maintained, and in conclusion I give the names of those who have filled this honourable position during the last hundred years; the list is complete since 1821, and there are four names belonging to the XVIIIth Century. The names of women occur 14 times in this list, who must, therefore, according to the laws of the Court Leet, have been the tenants paying the highest rent. Mr. Pearce's family have held office more frequently than any other, and he informs me that the further back we trace its history the more often does the name occur. He has records of this for more than 600 years.

NAMES OF THOSE WHO HAVE HELD THE OFFICE
OF REEVE.

1700 William White	1857 William Henry Percival Weston
1720 William Pearce	58 William Gibbs
1742 Richard Lano	59 Susannah Spencer
1768 Robert Pearce	1860 George Sampson, jun.
1821 William Pearce	61 Jane Pearce
22 William Spincer	62 Benjamin White
23 John Stone	63 William Eliot
24 Abraham Pearce	64 Elizabeth White (widow)
25 Robert Schollar	65 William Comben
26 Benjamin Pearce	66 William Lano
27 Abel Pearce	67 Edward Pearce
28 Owen Pearce	68 Benjamin Pearce
29 Abraham Pearce	69 John Ward
1830 John Penn	1870 Joseph Hodder
31 Rebecca Lowman	71 Richard Pearce
32 Benjamin Scriven	72 William Henry Holland
33 Richard Tucker Steward	73 Stewart Forbes
34 William Heath	74 Thomas Angel (sen.)
35 William Bayley	75 Henry Stone
36 R. Weston	76 Abel Pearce
37 Deborah Stone	77 William Stone
38 Edward Steward	78 John Pearce
39 John Steward	79 William Bayley Heath (sen.)
1840 Rebecca Steward	1880 Thomas Snook
41 John Pearce	81 Susannah Gibbs
42 Jabez Mabey	82 Thomas Angel (jun.)
43 Jonathan Lano	83 Robert Rod
44 Thomas Heath	84 Charles Jesty
45 Margaret Heath	85 John Gibbs Pearce
46 Margery Comben	86 Robert Hinde
47 Margery Spencer	87 John Angel
48 William White	88 John Merrick Head
49 Charles Parker Steward	89 Andrew Richard Curtis
1850 Rev. Edward Harold Browne	1890 Susannah Scriven Pearce
51 Richard Steward Wardell	91 Thomas Comben (Fortune's- well)
52 Phillip Dodson	92 William Comben (Prospect place)
53 Bartholomew Comben	
54 Richard Pearce	
55 Granville John Penn	
56 Richard Lano	

58 THE PORTLAND REEVE STAFF AND COURT LEET.

1893 William Comben (Maiden Well)	1905 Richard Lano
94 Robert Comben (Easton)	06 Richard Score
95 Jabez Pearce	07 Susannah Wingate
96 Jonathan Lano	08 Robert Pearce
97 Elizabeth Ward	09 Edward James Pearce
98 John Flew	10 H. P. Murray
99 Abraham Hodder	11 Ela R. Hodder
1900 Joseph Sampson	12 Eleanora Comben
01 Woodham Hill	13 Henry Sansom
02 Frederiek James Barnes	14 Jabez Pearce
03 Henry Sansom	15 Josiah Flew
04 Edward John Pearce	1916 Rebecca Lano

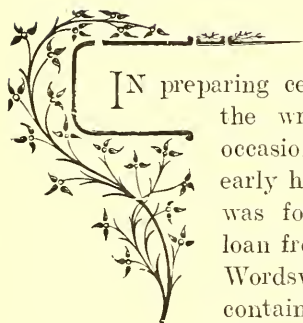




Wessex Minsters.

By the Rev. A. C. ALMACK, M.A.

(Read 20th Feb., 1917.)



IN preparing certain Lectures on Church History the writer of the present paper had occasion to study somewhat closely the early history of Parishes in England. He was fortunate at that time to have the loan from the library of the late Bishop Wordsworth of a very interesting book containing much information which might be called unusual and original. It was an Essay entitled *Les Paroisses Rurales* by Prof. Imbart de la Tour of Bordeaux. His facts there collected relate to the development of the Christian Church in Gaul during the 4th and 5th Centuries, and they are gathered from the Decrees of Councils, Codes of Law, and other first-hand evidence. In reading these pages, in which the gradual instalment of a Priest and place of Christian Worship in townships and villages is carefully traced, our thoughts naturally turn to our country ; and we are arrested by the

recollection that the system and rules by which this expansion had been worked out in Gaul must have been well known and understood by Augustine of Canterbury and the Missionary Bishops who worked in succeeding years for the conversion of Southern Britain.

Now the leading feature of this system is that in the large towns, which had been the centres of Roman life and civilisation, a centre was naturally found for the establishment of a Christian Bishop with a body of assistant Priests round him. This was in accord with the design of S. Paul, who clearly seems to have aimed at founding the Church firmly in all the great cities, *e.g.*, Ephesus, Corinth, and Thessalonica. From these centres the missionary agent was sent forth from the Bishop's staff to preach and subsequently to conduct acts of worship in the neighbouring "vici" which were attached to the central "municipium" and also in the "Oratoria" or chapels which were gradually allowed on the estates where the owners had become Christian.

Now the point which seems specially to arrest our attention is the great care with which the Ministration of the Sacraments of Baptism and Eucharist was always guarded. Properly speaking the Bishop in both cases celebrated them himself and made periodic visits for the purpose, usually at the time of the great Festivals. The places at which these celebrations took place were strictly fixed and duly licensed by the Bishop, and his place could only be taken by a Priest authorised and commissioned by him. A further point of much importance is that the technical term used for such appointment of a locality is, that it had the "Ministerium." An idea therefore naturally occurred to one's mind that the towns and villages which bear the suffix of "Minster" were the places where the "Ministerium" was allowed, and that this was the easy derivation of the name. It is of course remarkable that in Britain the old Roman towns, for various reasons, only in a few cases became Christian centres; but the fact of a centre being established in a town like Sherborne,

which had no importance in Roman times, would not affect the general system pursued in the missionary work. The question about this work, as to the people to whom it was primarily directed, we must now necessarily leave aside. Some authorities consider that the old Romano-Celtic population was already firmly Christian, and the people who needed conversion were the Saxon intruders. Of this theory I will only say that the evidence for it which I have come across seems to me of a slender kind.

With regard to the "Ministerium" theory it may be said at once that the conclusion now reached is that it is partly right and partly wrong.

The evidence bearing on the subject will, it is hoped, prove of interest, and the following are among the chief points, though they do not appear to be altogether conclusive; and the writer of the paper will be very grateful for any further information which may tend to illustrate the history of our ancient Wessex Minsters. It seems to him that there are various facts which point strongly to their being the early Mission Stations; but the idea of deriving the name from "Ministerium" can hardly be maintained. The original word is certainly *Monasterium*, which became *Mynstre* in Saxon ordinary speech at a very early date. It appears thus in Charters, *e.g.*, in one of Evesham Abbey. From the decree of the Council of Clovesho in A.D. 747 it is quite clear that certain places were regularly visited by the Bishops for the purpose of preaching and Ministration of the Sacraments. The decree runs as follows:—"Sanxerunt ut singulis annis unusquisque episcopus parochiam suam pertransiundo et circumeundo speculandoque visitare non praevideat, populumque diversae conditionis ac sexus percompetentia ad se convocat loca aperteque doceat," etc. Here of course the word "*Parochia*" is still used for the Diocese of a Bishop, and not in the sense of Parish. The latter use is possibly not older than the introduction of Norman French after the Conquest. In illustration of this point the following passage from Bede is also interesting.

He writes of Northumbria., *Hist. Eccles.* III. 3, "Construebantur ergo ecclesiae per loca : confluebant ad audiendum verbum Dei populi gaudentes. . . . donabantur possessiones ad instruenda Monasteria." We find also clear evidence of the itinerating Priest in the IXth Decree of the same Council of Clovesho, and apparently the assignment of certain districts to certain officiants. Evidence of the same kind is also found in the famous letter of Bede to Egbert, Bishop, and afterwards Archbishop of York, and the word "Ministerium" is regularly used as the technical term for this itinerant visitation. So much is clear, but no evidence comes to light to prove that this name came to be attached permanently to any locality. On the other hand there is plenty of evidence from Bede's History, and from Conciliar decrees, Deeds of Gift, &c., that as soon as any permanent residence of a priest or priests was fixed the name "Monasterium" was used, and the word appears to be employed to signify both the chapel and the lodging of the Officiants. This fact is also illustrated by the construction of many very ancient Churches, of which Deerhurst near Tewksbury, and Breamore near Salisbury, may be quoted as specimens. In these instances the existence of a dwelling chamber seems coeval with the existence of a Church, The Saxon form of the Word (*i.e.*, Mynstre) appears in the *A.S. Chronicle* to designate a residence of a religious community and also of an ordinary church. Under the year 794 A.D. Jarrow is called Ecgfyrd's Mynstre, and under 656 A.D. Peterboro' or Medeshampsted is spoken of as "Mynstre." The little Church of Kirkdale in Yorkshire has still over the door the inscription which tells of its erection and calls it a "Mynstre." It is also remarkable that *Ordericus Vitalis*, Book II, in giving a long list of endowments by Barons in Normandy, mentions frequently the local "monasterium eum terra presbyteri," which obviously means the parish church and priest's glebe, while the Abbey or Monastic House itself is called "Cenobium," a name which has never found an equivalent in English.

In studying this question of the name we have to recollect that, in the centuries (the 8th and 9th) of which we are treating, the general adoption of the strict Benedictine Rule had not come, and that the definite separation into Regulars and Seculars did not take place till the time of S. Dunstan, who did not begin his career till A.D. 943, when he became Head of the Glastonbury House, at which date even that ancient establishment was not a Monastery in the strict sense of the term. From Dunstan's time onward we may trace the distinctive use of the two terms "Collegium" and "Monasterium;" the former meaning a body of Secular Canons attached to a Collegiate Church, so specially frequent in the West of England, and the latter a body of Regulars under strict Benedictine Rule. In Bede there is no such distinction. He speaks in H.E. IV., Chap. 12., of two Bishops of Lindisfarne, who were Monks in the strict sense, as "ambo de collegio monachorum." Returning to instances of the use of the name "Mynstre," a quotation may be made from Leach's "*Schools of Mediæval England*," in which notice is made of the use of the word "Mynstre" as applied to Winchester in the 11th Century copy of the A.S. Chronicle, where apparently the word "Churche" had been used in the older copy. This is taken by Leach to show that in the 11th century we may take it that the word "Mynstre" was coming into use for a large or important church. The application of the title to York, Ripon, Lincoln, Beverley, &c., may be as early as that date; but the term often used by Bede for York is Basilika, and the same is used by Ordericus for the Cathedral of Rouen. Other interesting facts are that the five Royal Minsters of Staffordshire, which are generally dated from early in the 9th century, were never Monastic in the regular sense, and have always borne the Minster name. It would appear also that West-minster was attached as a name to a Church and clergy on Thorney Isle long before there was the definite establishment of Westminster Abbey as a House of "Regulars." Our conclusion is that monasterium is certainly the original

form of minster, but that a place, called in the 7th and 8th centuries monasterium or minster, did not at all necessarily develope into a real monastery in the 10th and 11th. The very ancient ruins of the old Minster at Elmham in Suffolk are simply the ruins of a comparatively small place of Christian worship, and may be cited as a final illustration of the correctness of our conclusion.

We now turn to the second part of our subject, and that is to shew what reasons we may find for considering the Wessex places which bear the suffix of "Minster" to be the early stations of the Missions of the Saxon Church. The records of course are scanty, and the evidence is cumulative rather than direct. The first fact then that we may note is that the settlements of Saxons after their conquest did not as a rule take the form of a re-peopling of the old Roman towns, but of a cultivation of valley-lands which previously had not been reclaimed from floods and jungle. Such places as Old Sarum, Silchester, Ilchester and our Dorchester find no place in the records of Christian action and development in these early centuries. Entirely new centres are fixed upon, such as Glastonbury, Sherborne, and Wimborne Minster, and, further on, in the early 10th Century, Crediton and Wells. Now these Minsters, where the name is a suffix, are, it appears, invariably situated in what are now valleys of rich pasture, and the Church itself stands in close proximity to a stream; and we know that streams were constantly used in early days by the itinerating Bishop for the administration of Holy Baptism. The form of the name we note in these cases is remarkable. It is just the old British river name with Minster added. Sturminster, Iminster, Axminster, Exminster, Wimborne-Minster; and in all probability Charminster, Iwerne Minster and Warminster are to be accounted for in the same way.

The next piece of evidence which we mention will probably appear to have a stronger force. It is the fact that, in the earliest records we possess, these places almost invariably appear to have been attached to the Cathedrals

as Prebends, and, what is more, we find in several cases the Prebends go back to a time before the separate sees of Somerset and Devon were created, and when Sherborne was the only Bishop's Stool yet established by the Saxon Church in these Western Counties. Some instances may be mentioned. Bedminster, near Bristol is a much older place than Bristol. The Church, like the others mentioned, is near a river bank. The name "Bedminster and Redcliffe" is still attached to a Salisbury Prebend. This fact is generally taken to point decisively to a time when Sherborne was the only See and Bedminster was an offshoot or Mission from Sherborne, and was transferred to Salisbury with the transference of the Bishop's Seat after the Norman Conquest. The Prebend appears in the oldest list of Sarum Prebends, and we may note that this is another of the instances where we find the name Minster, but no trace there whatever of any Monastic establishment in the stricter sense. It appears also that Exminster and some neighbouring churches belonged to Sarum from the time of the transference of the See, and probably this was so because of previous attachment to Sherborne. The Prebend of Warminster in Wilts also show signs of a like condition originally. From an early date it appears as divided between Sarum and Wells. Land here previously belonging to the See is assigned to a separate Prebend by Bishop Robert, who ruled from 1136—66 A.D. The name appears now among the Prebends of Salisbury, and in the Wells Prebends also as given by Canon Church. Wells had also a Prebend of Wormestre the derivation of which name is from the hill near which it stands. It will be found, too, that Charminster, Yetminster and Beaminster have very early Prebends, which appear in S. Osmond's Charter for the erection of a Cathedral at Old Sarum.

With regard to some names it is just possible that they retain the name of the Bishop or Saint by whose agency they were founded and the earliest "monasterium" or Priest's residence established. At Pitminster in Somerset

—so the present Vicar writes—there is a local tradition of a Bishop Pippa and there are traces of a very early Church. One of the panels of the ancient font bears a carving which seems to represent a Bishop in some act of ministration. The name too appears as Pip-minster in comparatively recent times ; but a Bishop Pippa has not come to light. Godwyn gives Putta as Bishop at Tawton before Crediton ; but no Pippa. It has been suggested also that Begeminster, in which form Beaminster seems first to appear, contains the name of Bega, a possible founder or foundress. The Dict. of Christian Biography gives Bega, Begha and Begu ; but in each case the traditions only touch Ireland and N. Britain. Mr. Hine in his recent history inclines to a derivation from Beme, which he takes to mean a growing wood or thicket. This does not seem to account for the form Begeminster ; but the derivation from the name of the neighbouring stream would be equally difficult to trace.

In presenting this short summary of the evidence which points to the early Mission position of the Minsters we now come to the last fact of importance, and that is the vast extent of the parishes attached, even till a recent date, to these old River and Prebendal Churches. Without any exception it would appear that the district attached to each was very wide ; and in most cases several dependent Chapelries were established in subsequent times and remained in that position till modern days. Thus Corfe Mullen, Hamworthy, and Lytchett Minster were all attached to Sturminster Marshall. Iwerne Minster had Chapels of Hanley, Gussage, Hargrove, E. Orchard and Hinton S. Mary. To Yetminster belonged Leigh and Chetnole, while Wimborne Minster and Sturminster Newton are still very extensive parishes. In fact the largeness of the district originally assigned seems true of all, and points to a time when the limits of responsibility and jurisdiction were not so strictly defined as became the case when priests were instituted to a cure of souls in parishes as we now know them.

In conclusion mention may be made of certain uses of the name about which no direct evidence seems to be available. What is the meaning of Minster as attached to Lytchett ? As far as records go back this Church is in the position of a Chapelry to Sturminster Marshall, and no trace of a Monastic house of any kind is forthcoming, nor even that land there belonged to any Monastery—which is in some cases an explanation. May the suggestion be made that it was known as the Lytchett attached to Sturminster to distinguish it from Lytchett that belonged to the Mattravers, and so came to be known in common talk as “Lytchett of the Minster ?”

Minsterton or Misterton near Crewkerne and Minsterley in Salop appear never to have been in any case Mother-churches, and possibly the name in these cases may indicate a later use of the word as an offshoot from a Parish Church. Or the name may be simply accounted for by the fact that some Monastic House owned an estate in that locality, which appears to give a reason for the name of Upminster in Essex, Minster Lovell in Oxfordshire and Minsterworth in Gloucestershire. The places that bear the name of Minster simply, *e.g.*, Minster in Thanet, Minster in Sheppey, and Minster in Cornwall, indicate obviously an early Religious House and the land attached to it. They do not suggest a Christian Station to serve for a large district as the River-Minsters appear to do. Perhaps some further information on these points may reach the writer of this paper from those who may kindly be moved to send it to him. It will be gratefully received and much valued.

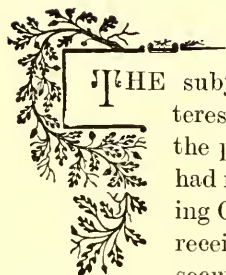




Leadern Coffin found at Cann, near Shaftesbury.

By H. St. GEORGE GRAY.

(Read 20th Feb., 1917).



THE subject of this paper has reference to an interesting coffin of lead found in April, 1916, in the parish of Cann, near Shaftesbury, which I had not the opportunity of seeing till the following October 26th. I had, however, previously received correspondence on the subject and secured a photograph of the coffin taken by Miss Constance Palmer, of the Rectory, Tollard Royal, which by her kindness is here reproduced.

The coffin was found in the limekiln field (field No. 1), Ponsonby Farm, Cann, about $2\frac{1}{2}$ miles S.E. of Shaftesbury. This farm is owned by Mr. John Jeans (now of Bournemouth) and tenanted by his son-in-law, Mr. John H. Drew; the coffin was discovered by a quarryman, named Walter Coombes (of Cann Common). In this field surface-quarrying is in progress for the purpose of obtaining stone (the local Upper Greensand formation) for the roads, and the coffin was found at a depth of $3\frac{1}{2}$ feet below the surface of the almost flat field.

Nobody interested in the archæological significance of the discovery was on the spot at the time, and the workmen, it is understood, sent for the police, who removed the lid



Leaden Coffin of the Roman period
found at Cann, near Shaftesbury, 1916

of the coffin and tipped the human skeleton, or what remained of it, into a hole and "re-buried" the remains under the adjoining stone-heap!

With the exception of a number of shards of Romano-British pottery, of black colour, no relics were preserved, and there is no record of any coins having been recovered or seen. I examined a number of fragments of this ware, which is about $\frac{1}{4}$ inch thick, and there was sufficient to suggest the possibility that the coffin at one time contained a complete vessel. The only object found outside the coffin which I was able to recover was an interesting piece of soft New Forest ware, painted with a black colouring externally, and ornamented with a plain cross, the ends of the arms joined by four lines forming a diamond-shaped device; the whole design is outlined in white paint. This fragment is undoubtedly of Roman manufacture.

From its size it is evident that the coffin contained the skeleton of a child; but its chief interest arises from the fact that the leaden receptacle rested on what at first appeared to be a soft stone base (with a very slightly concave upper surface), having a raised edge on all sides, and forming a large tray with a plain moulded margin. This is clearly seen in the illustration. This base, which was found to be somewhat weathered, was 4ft. 2ins. in length, but is now broken in half. The rounded, or moulded, edging was found to be somewhat damaged, but its maximum height above the ground was 9ins. The maximum width of this tray was 18ins. This material has been examined through the kindness of Mr. J. Allen Howe, B.Sc., Curator of the Geological Survey and Museum, Jermyn Street, S.W., and it proves to be an artificial cement, composed of lime and sand, the latter no doubt obtained from the local Upper Greensand formation.

This unornamented coffin is on the whole in good condition, and the thickness of the lead of which it is composed is about 3-16ths inch. The lid, also of lead, is now somewhat concave (viewed from the top), owing no doubt to the weight of the

stone fragments which covered the coffin when buried.¹ It consists of one sheet of lead bent over at the margins to form a lid which would not slip out of position. It was found to be 3ft. 8ins. in length, and the width 12ins. at the head and 11ins. at the foot. On removing the cover it was found that the coffin measured 3ft. 6ins. in length, the varying widths being 11½ins. at the head, enlarging slightly to 12ins. and then gradually diminishing towards the foot to 10ins. The internal depth of the coffin was 7ins. at the head and 6¼ins. at the foot.

Through the kind instrumentality of Prof. P. N. Ure, Mr. J. W. Dodgson, Lecturer in Chemistry at University College, Reading, has analysed a boring from the coffin, and he reports "that the lead shows traces of oxydisation such as would be expected in any case, and also minute traces of iron; silver is not present in weighable quantity."

Leaves were found in the coffin which are *said* to have formed a kind of wreath round the forehead of the skeleton. When I visited the farm I could get no definite information on this point, but I found a large number of small leaves, more or less broken, at the head-end of the coffin; for the most part they were adhering to the bottom by means of a dried material which appeared to have been at one time fine damp earth, or sediment.² I submitted a number of these leaves to the late Mr. Clement Reid, F.R.S., asking if he would kindly examine them; and he reported as follows on November 20th:—"These leaves are so thick and leathery that in one case the upper and lower skins moved independently and slid over each other (like an opening pod); but there seemed no trace of ordinary

¹ There was no trace of an outer coffin of wood, as in the case of the Marnhull interment mentioned below.

² Not being satisfied with the varying reports with regard to the position of the leaves in the coffin, I recently wrote to Mrs. Drew, and in her reply of January 17th, 1917, she says that the quarrymen have again been questioned. They state that "the leaves were in position of circle at the bottom of the head-end of the coffin; they were green and stuck with mud; when found the coffin was partly filled with water."

leaf venation. They turn out to be detached leaves and short sprigs of box, gathered at a season when the venation has not become lignified. They agree exactly with the box now growing in my garden ; but they look very different from the strongly pinnate-veined box-leaves found at Roman Silchester, which correspond with sprays and fallen leaves gathered in the spring. I am convinced that all the Cann specimens belong to box, even the extra large one so like a pod. Perhaps sprigs of box were used in the funeral rites. At Silchester they were merely found in the rubbish pit, and gave no indication of the use to which they had been put. The box has been considered a doubtful native of Britain, but now we have it at two localities associated with Roman remains."

Ten days after this report arrived Mr. Reid died, and in a letter I have since received from Mrs. Reid she says : " The report which he made for you on the leaves from the Cann coffin was the last he ever made. " ¹

The three most interesting features about the Cann interment are:—⁽¹⁾ the small size of the coffin ; ⁽²⁾ the cement base or tray on which it rested ; and ⁽³⁾ the box-leaves found inside the coffin.

With regard to the first point, children's coffins of the Roman period have occasionally been met with, and some have been recorded. One, 3ft. 9ins. in length, was found about a mile west of Sittingbourne ; it contained a number of valuable antiquities. ² In 1844 two leaden coffins containing the remains of children were found in London, one in Whitechapel, the other at Stratford-le-bow. ³ Three small

¹ I take this opportunity of acknowledging the kind assistance Mr. Reid gave me from time to time, extending over a number of years, in examining specimens from archæological excavations with which I have been connected (including Maumbury Rings, Avebury, and the Glastonbury Lake Village).

² This specimen is in the British Museum. Figured in G. Payne's *Collectanea Cantiana*, Plate XVIII. ; see also *Collectanea Antiqua*, VII., 186-7.

³ C. Roach Smith, *Collect. Antiq.*, III., 55.

leaden coffins were discovered about a quarter of a mile westward of the church of East Ham.¹ Another, 3ft. 2ins. in length, containing the skeleton of a young girl, was found at Irchester.² In 1828, two leaden coffins, containing the skeletons of young persons, were found at Rouen³; they were accompanied by grave-goods.

There is no evidence that the cement ever entirely enveloped the Cann coffin. The edges of the tray were more or less rounded, and there was no indication of fracture along the margins. Leaden coffins were, of course, frequently enveloped in an outer covering of wood, as in the case of the interment discovered at Grey Down Quarry, Marnhull, about 6 miles west of the site where the Cann coffin was found. I described the Marnhull burial in the *Western Gazette*, 29 June, 1892, and later in *Somerset and Dorset Notes and Queries*, Vol. IX., pp. 5—8.⁴ Several large nails, about 4½ins. in length, and some rectangular plates of thin iron pierced with nail-holes, were found outside the coffin, all of which bore traces of wood still attached by rust, indicating that there had been some external wooden structure. From the measurement of the long-bones I was able to estimate that the stature of the individual was about 4ft. 10½ins., which is about the average stature of the females of the Romano-British Villages of Woodcuts, Rotherley, and Woodyates (excavated by General Pitt-Rivers). The Marnhull individual had been buried in sandals or shoes, as evidenced by the remains of hob-nails at the feet. No

1. "Three leaden coffins were next found, lying like the sarcophagus north and south. Two were ornamented; the third plain. Their measurements are 4ft. 10¼ins. by 11½ins. at the top, and 9ins. at the bottom, and the smaller 2ft. 4ins. in length." (*Collect. Antiq.*, VII., 191). The last-mentioned is in the British Museum.

2. *Collect. Antiq.*, VII., 192-4.

3. *Op. cit.*, III., 56-57.

4. *Som. and Dor. Notes and Queries* also contains some of my notes on leaden coffins found at Wiveliscombe and in other parts of Somerset (see Vol. IX., 8, 58; and Vol. XIV., 335).

coins were found in the coffin, but Roman coins have been found from time to time in the quarry.*

With regard to the presumed wreath of box-leaves, I have been unable to find any record of such an occurrence in Britain in this period. Having seen a large number of leaden coffins exhibited in the Hospitium, York Museum, I wrote to Mr. Oxley Grabham, the curator, who replied, "No wreaths or leaves were found in the coffins, but many trinkets, such as beads, fibulæ, rings, pins, buttons, &c." Other enquiries elsewhere have brought no records to light bearing upon this subject.

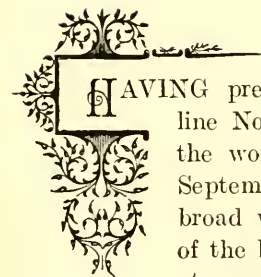
* There are a few additional notes on this interment by Mr. B. E. Freame, of Gillingham, in the *Dorset Album* (in the Library, Dorset County Museum), Vol I., pt. ii., p. 45c.



Opening of the Round Barrow at Melcombe Bingham.

By Major C. ASHBURNHAM.

(Read 12th Dec., 1916.)



HAVING previously pegged out the levels on a line North and South of magnetic bearing, the work of opening the barrow began on September 25th, 1916. A cutting three feet broad was driven straight through the centre of the barrow from South to North, beginning at peg 4. The point selected for starting was evidently a lucky one, as within a few hours of working an urn was discovered two feet below the surface, and four feet and a half North of peg 3, under the West edge of the cutting. The urn measured nine inches and a half in height, and two feet five inches at its largest circumference. It contained burnt bones and a small bronze awl, which fell on the ground with some of the ashes as I was removing the urn (which was inverted).

The following day, Sept. 26th, it was discovered that the urn had been buried on the top of the original, or inner, ditch of the barrow. The South edge of the ditch was two feet



Primary Interment
In the Barrow, Melcombe Bingham
As found 4 ft. 3 in. below the original turf level. See plan

South of peg three, and one foot six inches down. The North edge was five feet North of peg three, and five feet down. The bottom of the trench was found two feet North of peg three, and six feet three inches down. The next four days, Sept. 27th to Sept. 30th, were very wet, and consequently little excavating could be done, but progress was made by putting up wire round the barrow to keep out the cattle, getting out the large flints at the top of the barrow, and rolling and piling them at the bottom. On Monday, Oct 2nd, Mr. Legge, who was working with me, began to excavate on the Northern side, where the ditch was presumed approximately to be, and he soon came upon it. Owing to the fall of the ground it was much deeper than on the South side. (See Section.)

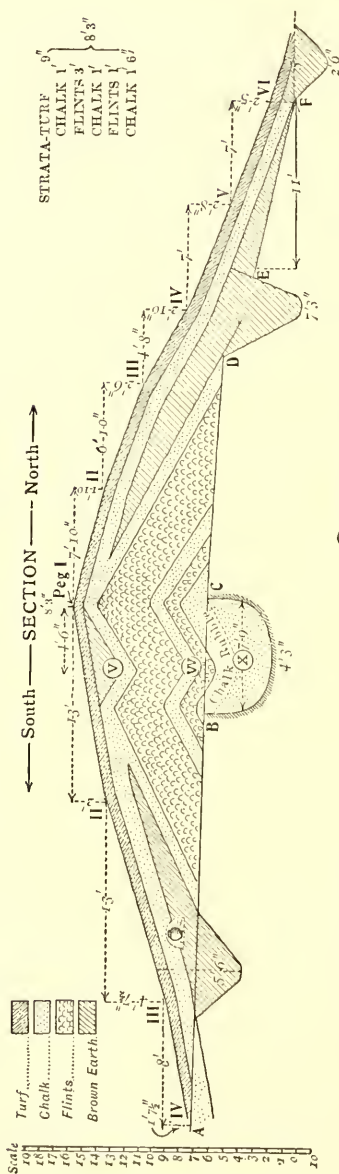
On examining the cutting of this ditch, I observed that a stratum of rubble chalk, one foot in thickness, completely covered the top of the ditch, while the bulk of the ditch was filled up with brown earth. This led me to suspect that there was, in all probability, an outer ditch still to be found, from which this rubble chalk had been taken to cover over the interments in the ditch.

This surmise proved to be correct, and on Oct. 12th Mr. Legge uncovered the second, or outer ditch, at the point where this stratum of chalk ended.

On Tuesday, Oct. 3rd, the centre of the barrow having been reached, it was found desirable to widen the cutting at this point, for two reasons :—firstly, to get more room for excavating the primary interment ; and, secondly, because the huge flints showed a tendency to fall in upon the workers.

NO. I. WOMAN.—The next day, Oct. 4th, digging was begun over the primary interment and some bones were found two feet and a half below the top of the barrow, and four feet six inches South of peg 1. There were some very heavy showers on this day; and on the following day, Oct. 5th, heavy rain fell, with the result that the Eastern edge of the cutting fell in during the night. The next day, Oct. 6th, it was seen that more bones of this (No. I.) woman had fallen, with the

ROUND BARROW. MELCOMBE BINGHAM.DORSET.



A B C D E F: Original turf line.

CONTENTS OF BARROW—

(V) No. I. WOMAN, 4' 6" South, 2' 6" below Peg I.
(W) No. II. WOMAN and CHILD, 3' 6" South of Peg I.

(X) No. III. MAN, PRIMARY INTERMENT.
No. IV. MAN, in inner ditch 12' east of west edge of cutting
No. V. BONES IN URN, South side of inner ditch.
No. VI. STONE IMPLEMENT 3' below, 4' east of Peg I. } See Plan

(V) No. I. Skeleton. Woman, and bones of ox, horse and pig

(W) No. II. Skeleton. Woman of fine stature, and, by the bones of her wrist, well-bred, and unaccustomed to manual labour. Also bones of child, badly cremated.

(X) No. III. Skeleton. Primary Interment. About 6' 10" in height, by thigh bone.

collapse of the flints, from the position they were in on the previous day.

NO. II. WOMAN AND CHILD.—Later on in the day, after clearing away a quantity of the *débris* of the fall, the skeleton of another adult, and also what appeared to be the skull bones and teeth of a child, were found just above the primary interment.

On getting down to the original turf level, the following different strata were observed.

From Peg 1.	{	Nine inches of brown earth and turf.
to		One foot of chalk rubble.
Original		Three feet of flints.
Turf Level		One foot of chalk rubble.
8ft. 3in.		One foot of stone flints.
		One foot six inches of rubble over primary grave.

FLINT IMPLEMENTS.—On October 9th, Mr. Legge was enlarging the central space, at a point four feet six inches South of the centre peg, and three feet below it, and four feet to the East of it, when he found a flint implement, the only one discovered in the barrow. It appeared to have been thrown in with the other flints, and not put there specially.

NO. III. MAN.—On Oct. 10 the new extension in the centre was excavated down to the level of the primary interment, and on the following day the skeleton was uncovered, and the skull found to be in a fair state of preservation.

NO. IV. MAN.—On Oct. 14th Mr. Charles S. Prideaux came out from Dorchester, and successfully removed the skull, by making a plaster of Paris mould for it. A fourth skeleton was found three inches under the soil, twelve feet from the W. edge of the cutting where the urn was discovered.

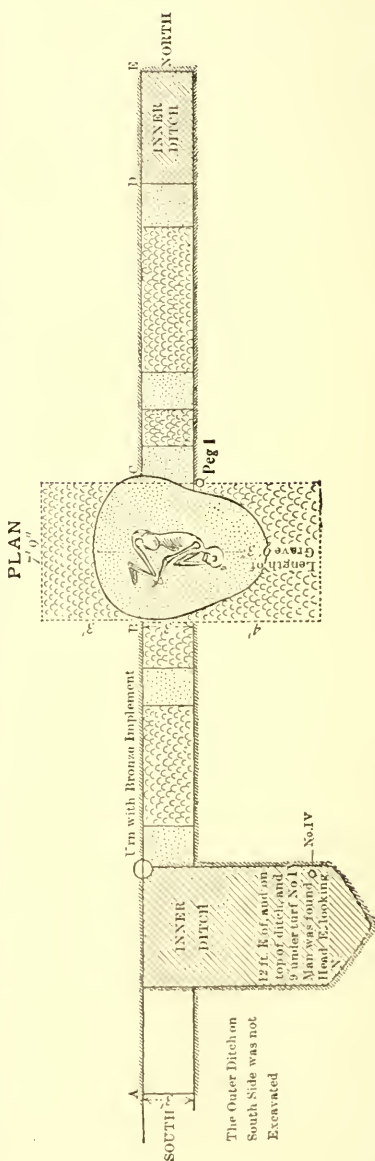
The skull and thigh bone of No. III. Man were sent, with the remainder of the bones, to Dr. Arthur Keith, of the Royal College of Surgeons, who expressed the opinion that they belonged to a man of about five feet ten inches in height.

Captain and Mrs. Acland came out and visited the excavations on Oct. 19th, and the barrow was afterwards filled in,

as it was getting too late in the year for excavations. It is hoped, another year, to work round the inner ditch, with a view of finding some more urns.

In conclusion, at a point four feet six inches South of peg 1, the strata, throughout the barrow, have taken a downward thrust of two feet. When the skull of the primary man was taken to London and shown to Dr. Keith, one of his first remarks was that he observed that there was a finger-tip adhering to the skull. From these two observations it is suggested that the skeleton, which was found on its left side, was originally buried sitting upright, with the face resting on the hands. It is probable that the great weight of the stone broke the top of the grave, and forced the body gradually on to its side.

NO. II. AND NO. III. MAN AND CHILD.—It is suggested that the barrow covers two distinct periods of time, one very much older than the other, the older period including those burials found



inside the stone tumulus, within the inner ditch. The burials outside the inner ditch were possibly much more recent.

NO. I. and NO. IV. MAN AND URN.—Consequently the finding of a bronze implement in the urn, over the inner ditch, in no way dates the age of the barrow.

The skeletons, &c., which had been exhumed, were sent by Major Ashburnham to Dr. Arthur Keith, of the Royal College of Surgeons, for inspection. The following interesting extracts from his reply give the results of his examination :—

Let us take the clearly-settled matters. Interment III. is so definite. The complete skeleton of a powerfully-built man, between 5' 10" and 5' 11" in stature, with great joints and powerful muscles, and a head shaped in the manner of the typical Bronze-age, round-barrow, men—brachycephalic. Age about 45—55. He had no wisdom teeth—never had them in either upper or lower jaw—uncommon even in modern Britishers. It is clear that the primary interment had never been disturbed, for the skeleton is nearly complete—indeed is complete excepting for the parts which have become eaten away by the soil.

NOW, AS TO INTERMENT I.—The whole skeleton is represented, and I don't think the grave could ever have been disturbed. The skeleton in No. I. interment is that of a woman, 45—55 years of age, about 5' 1" or 5' 2", in height ; and her skull, although imperfect, has the characters of the brachycephalic Bronze-age people. She was a strongly made person and muscular.

NO. II. INTERMENT.—You remember that there was a fall on the West side of the trench, and bones of No. I. Interment fell down to the site where No. II. was subsequently found. There was some mixing of the bones from the two sites. You also remember that what was described as part of the skeleton of a child was found with Interment II. I will deal with that "child's" skeleton first. It represents a cremation, so badly or imperfectly done that one can recognise large fragments from different parts of the body which tell us beyond doubt that the person cremated was an adult woman—a diminutive, delicately made, slender little thing—well under 5 feet in height, and not aged ; adult, but young.

Then there is the main Interment of No. II. Also a woman, lost all her molar or chewing teeth from disease. Probably aged. The skull had been broken, or fallen to pieces, long ago, for the fractured surfaces were weathered. She had a big capacious pelvis, and suffered from severe rheumatoid arthritis of the spine and joints generally. She had the squatting facets uncommonly well marked, buttock-heel squatting. Fairly strongly built, probably a worker, although collar-

bone is slender. I expect she was disturbed when the cremation was buried. She too, is of the Bronze-age brachycephalic type.

Apparently there had been several interments before the lady was laid in No. II grave; for with her, or in the *débris* that fell from the site of No. I, were fragments of the following persons—

- (a). Oldish man, represented by fragments of face and jaws, skull, and bits of limb bones. The bones are all of a grey colour, chalky, and appear to me to have been much longer in the soil than any other bones found.
- (b). Part of the jaw and femur of a child of 5 or 6 years; bones chalky and as ancient as (a.)
- (c). A few fragments of a woman, also chalky and ancient.
- (a). (b), and (c) represent *débris* from interments more ancient than No. II.

NO. IV. INTERMENT.—In the boxes, containing remains of No. II woman, was a skeleton and skull. The latter had been recently broken as by a cart wheel. Rather a stoutly made, strong, woman, not much, if any, over 5 feet in height, big pelvis. She is of the brachycephalic type; but it will not be possible fully to restore her skull.

They are thus all of the brachycephalic type, so far as one may judge:—

- 1.—A big fine man. No. III. grave.
- 2.—A woman. No. I. grave.
- 3.—A woman. No. II. grave.
- 4.—A woman. (Cremation). No. II. grave.
- 5.—A Woman. No. IV. grave.

Besides these, there are fragments of 1 man, 1 woman, 1 child, and also bits which will seem to represent still 2 other individuals. You have thus, at least, two men, 5 women, 1 child, and perhaps 2 other individuals.

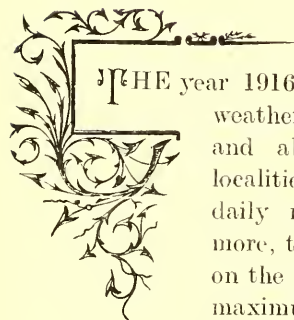
P.S.—I think you are dealing with a Bronze-age burial place. Clearly cremation was practised after No. III, interment, and before No. 1.—
A.K.

Oct. 21st, 1917.—Since the printing of the above notes, Major Ashburnham, with Mr. Legge, has this Autumn (1917) completely excavated half the inner ditch, beginning from the South side where the first cutting was begun in 1916 and working round by West to the North end of last year's cutting. Another urn broken in pieces, standing upright and filled with cremated remains, was found 6½ feet to the West of the urn discovered in 1916. The fragments of it were sent to Captain Aeland, Dorset County Museum. The excavation took two weeks. No further urns were discovered, and the only results of strenuous digging were three small pieces of broken pottery, and, at the bottom of the ditch, an antler pick and some animal bones.



Returns of Rainfall in Dorset in 1916.

By the Rev. H. H. TILNEY BASSETT, R.D.



THE year 1916 opened with a spell of very mild weather ; temperatures of 56 in the shade, and above, being registered in many localities. Up to January the 12th, the daily maximum reached 50 degrees, or more, the actual highest reading being 55·0 on the 1st day of the month. The mean maximum for January, here (Winterborne Whitchurch), was as high as 50·1 ; and only twice in the month did the thermometer fall below the freezing point. The mean minimum was also very high, 40·0. An abrupt change, however, took place about the 20th of February, and, on the night of the 24th, Dorset was visited with the heaviest snowfall which it has experienced for many years, snow falling to the depth of from 9 inches to a foot on the level in many parts of the country.

Excessive rainfall was again the feature of the year. There were no very long spells of rainless weather, the longest being

from March 28 to April 10, from July 27 to August 13, and from September 4 until September 17.

The average rainfall for the year, calculated from the 16 stations marked in the tables with an asterisk, is 41·670 inches; the average for 61 years, 1856 to 1916, is 34·764, showing 6·906 inches above the average.

The heaviest rainfall in the 24 hours, throughout the country, occurred on August 19th; the greatest fall being registered on that day at 34 stations. Two observers, however, record the greatest fall on December 20.

The heaviest fall in the 24 hours was registered at Creech Grange, 3·30 inches, on August 29th.

Days with a fall of one or more inches. Two stations record 9 such days, two stations 8, two stations 7, two stations 6, six stations 5, five stations 4, nine stations 3, six stations 2, and one station records 1.

The maxima of wet days were recorded at Sherborne 225, Broadstone 216, Wimborne (Codford House) 214, Kinson 212, Cattistock 210, Gussage (Manor) 207, Iwerne Minster 206, Beaminster and Gillingham 202. The minimum, 125, at Branksome.

OBSERVERS' NOTES.

HAMILTON LODGE, BEAMINSTER.—According to the latest calculation, the average yearly rainfall is 27·93 inches, and the average number of rainy days 175.

Snow fell every day from Feb. 21 to Feb. 29, both included; the heaviest fall being during the night of the 25th, and resulting in an average depth of 8 inches measured on the morning of the 26th.

A total drought, commenced on July 21st, and lasted for 21 days, until August 12th. No really settled weather was experienced afterwards.

The rainfall on August 29th was the heaviest fall within the 24 hours which has been experienced in Beaminster since 1875.

On November 5 the Barometer rapidly fell to 28·37—the lowest record which I have been able to find here.

There were 42 days with a maximum temperature of 70 and upwards. The hottest day was July 31st, when the maximum was 83 degrees in the shade.

BLOXWORTH HOUSE.—Snow fell on February 8, 9, 23, 24, 25, 26, and on March 5, 7, and 27.

There were thunderstorms on May 24th and on June 27th. On August 29th, violent N.E. wind and rain. On December 16 and 20, snow and rain.

The average rainfall, at Bloxworth House, for 16 years, 37·67 inches.

CHEDINGTON COURT.—The rainfall of August 29 was a remarkable one, and has only been exceeded once in over 19 years' records. On August 28th, 1910, we registered 3·24 inches.

Our greatest depth of snow fall, during the last six days of February, when much snow fell, was 10 inches at 9 a.m. on the 26th. There were again heavy falls of snow on March 27th and 28th.

There were heavy thunderstorms on the night of September 26th (especially at 10 p.m.), and during the night of September 28th.

MONTEVIDEO, CHICKERELL.—April 27, slight thunderstorm in the afternoon.

May 24.—Thunderstorm at night.

August 14.—A little thunder. No lightning visible.

August 17.—Short storm of thunder and lightning.

October 30.—Thunder and lightning in the night.

October 31.—Thunder and lightning in the night.

December 10.—One clap of thunder, and hailstorms.

Note.—The two largest rain falls in 24 hours, since a record has been kept at Montevideo, occurred on August 29th, of 2·52 inches and on December 20th of 2·00 inches.

CREECH GRANGE.—On August 28 and 29 there was a continuous rainfall, making a total of 3·70 inches during the 24 hours measured from 5 a.m. on the 29th until 5 a.m. on the 30th ; but the fall, as stated in the table, is according to the 9 a.m. to 9 a.m. measurement.

The 1·50 inches, recorded on December 20, fell between 10 p.m. on the 20th and 9 a.m. on the 21st. I believe that it ceased about 7 a.m. In that case 1·50 inches fell in 9 hours.

DORCHESTER, WOLLASTON HOUSE.—The total rain fall for the year is nearly 5 inches above the average. Four out of the last five years have all exceeded the average by fairly large amounts. The total of the 5 years, 1912—1916, exceeds the average previously adopted for Dorchester by no less than 39 inches, or nearly 8 inches a year.

The heaviest falls of the year were 2·30 Aug. 29, and 1·84 on Dec. 20.

I have re-calculated the annual average for Dorchester for the 21 years 1896—1916, and find it is 37·36 inches now, instead of 35·80 as calculated five years ago. There has been a steady increasing annual rainfall during the 21 years. The 1st period of 7 years 1896—1902 has an average of 32·96. The 2nd period of 7 years 1903—1909 has an average of 37·45. The 3rd period of 7 years 1910—1916 has an average of 41·68.

The actual totals of the 3 periods of 7 years are interesting ; they are :—

1st period 1896—1902	230·72.
2nd period 1903—1909	262·15.
3rd period 1910—1916	291·75.

A curiously regular progression.

EAST LULWORTH VICARAGE.—2·18 ins. above the average, The average rainfall here in the last ten years is 37·57—the highest was 45·33 in 1912, the lowest 28·27 in 1908.

In February snow fell on 4 days 24—27, and measured ·83 inches ; in March snow fell on five days and measured ·81 inches.

August.—In the storm of August the 29, 3.11 inches fell. In 23 hours the barometer fell 1 inch. The heaviest falls during the last 12 years recorded were 1.97 inches, Sept. 29, 1912, and 1.70 inches October 16, 1907.

STURMINSTER MARSHALL, BAILIE HOUSE.—Feb 9—Ground white with slight snow, for the first time this winter.

Feb. 24.—Snow 1 inch deep on grass.

March 6.—6.30 a.m., the 0.2 was result of sudden and short snow storm.

April 20.—4 20 p.m., thunder and lightning.

April 28.—5.6 p.m., rather heavy thunderstorm.

May 21.—Summer time began and followed.

June 1.—Rain came on suddenly at 8 a.m., and at 8.15 there were three minutes of heavy hailstorm (small stones).

July 27.—The .10 was result of thunderstorm of 9.4 p.m.

Aug. 26.—Of the .64, .57 fell before 5 p.m. day before.

Aug. 29.—Of the 2.01, 1.27 fell after 7.30 p.m.

Nov. 18.—Some portion of the .61 was sleet and snow, bitter cold wind, and a little ice, the first time this winter.

Nov. 28.—Sharp white frost.

Dec. 10.—8 a.m., some hail, clap of thunder, 8.40 a.m.

Dec. 16.—Began to snow 9.30 a.m. at 1 p.m. .05.

Dec. 21.—Rain began about 8 p.m. and suddenly stopped about 9.5 a.m., 22. *i.e.*, five minutes after I had taken gauge 1.81.

TURNWORTH.—Feb. 24, 10 inches of snow fell.

Feb. 27.—2 inches of snow fell.

Feb. 29.—5 inches of snow fell.

March 27.—Snow blizzard lasting 17 hours.

Aug. 29—2.10 of rain fell—a record. Largest amount that I have ever registered.

WAREHAM, TRIGON.—Feb. 23, 24, 25, 26—Snow fell.

Feb. 27.—Sleet melted as it fell.

Feb. 28.—Snow.

Feb. 29.—Sleet.

March 5, 6, 7, 8.—Snow.

May 24.—Thunder storm.

Oct. 31.—8.45 p.m., two claps of thunder. Hail storm.

Nov. 1.—8.20 a.m., a clap of thunder and lightning, S.W.

Nov. 18.—Snow on the Purbecks.

Dec. 10.—Hail and rain storms with flash of lightning and thunder about 11 a.m.

Dec. 16.—Snow.

WINTERBORNE WHITCHURCH.

JANUARY.—The month was remarkably mild, on no less than 17 days the temperature rose to 50 and above. There were 13 days on which rain fell. The heaviest fall in 24 hours was 0.28 on the 2nd. The highest shade temperature was .55.0 registered on the 2nd. The lowest, 25.0, on the 22nd night. The temperature fell only twice below the freezing point during the month. Total rainfall, 1.28.

FEBRUARY.—Mild weather prevailed up to the 21st, when the conditions became thoroughly wintry, and snow fell daily to the end of the month; the heaviest fall occurring on the night of the 25th, when 9in. of snow fell.

There were 24 days on which rain or snow fell. The greatest fall in the 24 hours was registered on the 3rd, viz., 0.89. The highest temperature in the shade was 53.0, recorded on the 16th. The lowest .19 during the night of the 27th. Total rainfall, 6.04.

MARCH.—Snow was very frequent throughout the month; the heaviest fall was on the 27th, when six

inches of snow fell between 3 and 6 p.m., and snow and rain fell till the next morning. There were 18 days on which snow or rain fell, the heaviest fall in the 24 hours being on the 27th, when 1·00 in. was registered.

The highest temperature was registered on the 14th—56·0. The lowest during the night of the 4th—23·0. Total rainfall, 4·12 inches.

APRIL.—The weather was cold generally up to the 25th; but from that date to the end of the month conditions were warm. There were 12 days on which rain fell, the heaviest fall occurring on the 16th, 0·25. There was a thunderstorm on the 21st at 4 p.m., moving from W. to E., to the N., and a heavy thunderstorm passed from E. to W., to the S. on the 28th.

The highest temperature in the shade was registered on the 28th, 72·0, the lowest during the night of the 7th, 27·0. Total rainfall, 1·02.

MAY.—There were 11 days on which rain fell; the greatest fall in the 24 hours occurred on the 1st, when 0·69 was measured. There was a thunderstorm of some energy from 10.30 to 11.15 p.m. on the night of the 24th.

The highest temperature was registered on the 18th, when the temperature rose to 75·0, the lowest occurred during the night of the 25th, 32·0. Total rainfall, 1·91 inches.

JUNE.—The conditions were generally cold and unsummer-like throughout the month. On only two occasions did the temperature reach 70 in the shade, and on nine failed to reach 60·0. The warmest day was the 17th, when it touched 70·0. The coldest night, the 7th, when it fell

as low as 32. Rather a severe thunderstorm passed from N. to S., between 5 and 6 p.m., on the 27th. There were 12 days on which rain fell; the greatest fall in 24 hours being 0·55 on the 27th. Total for the month, 2·38.

JULY.—From the 18th to the end of the month the weather was very hot and fine, the temperature rising to 70 and above each day, and 80 and above on the last two days. The highest temperature of the month was reached on the 31st—84·0 in shade; the lowest was registered during the night of the 8th—42·0. Rain fell on 7 days—the heaviest fall in 24 hours being 0·95 on the 6th. A thunderstorm of no great violence passed from N.E. to S.W. between 4 and 5 p.m. on the 27th. Total rainfall for the month, 1·67.

AUGUST.—Very warm and hot conditions prevailed up to the 15th. On 19 days the temperature rose to 70 and above in the shade, the highest recorded being 82 on the 1st; but 80 was reached on five occasions. The lowest reading was 42·0, which was registered during the night of the 30th. There were 14 days on which rain fell. The heaviest during the 24 hours was 1·95 on the 29th.

Thunder was heard to the N. on the 15th, 2 p.m., and heavily to the W. on the 17th, between 4 and 6 p.m. Total rainfall for the month, 4·16.

SEPTEMBER.—There were 10 days on which rain fell, the greatest fall being 0·86 inches on the 27th. The temperature reached 70 and above on 8 days

the highest registered was 73° on the 28th. The lowest temperature recorded being 31°0, during the night of the 14th.

There was a great deal of thunder and lightning between 10 and 11 p.m. on the 26th, and also during the night of the 28th. Total rainfall for the month, 3·89.

OCTOBER.—There was a remarkable and sudden fall of temperature on the 15th, which was maintained throughout the rest of the month. There were 20 days on which rain fell. The heaviest fall in the 24 hours occurred on the 3rd, 0·73.

The temperature reached 60 and above on 14 days, the highest 65°0 was registered on the 5th. The lowest observed was 32°0, which occurred during the night of the 24th.

There was a slight thunderstorm at 8 p.m. on the 31st, which was followed by a hurricane later on at night. Total rainfall for the month, 6·33.

NOVEMBER.—There were 18 days on which rain fell, the greatest fall in the 24 hours being 1·06 on the 7th.

Thunderstorms occurred at mid-day on the 6th, 7th, and 8th. The severest was that of the 7th, which lasted over an hour. On the 17th rain began to fall heavily about 6.30 p.m. and turned to snow at 8 ; the ground was quite covered by 10 p.m., and the snow continued to fall until 11 a.m. on the 18th.

The highest temperature was registered on the 11th, viz., 57°0 in the shade. The lowest, 22°0, was recorded during the night of the 27th. Total rainfall, 6·46.

DECEMBER.—The coldest December we have had for many years; the temperature did not reach 40 from the 9th to 19th, and the maximum temperature upon the 14th was 31·0 and that of the 18th only 28·0. The highest the thermometer reached during the month was 54, on the 31st. The lowest recorded was 16·0 during the night of the 16th.

There were 13 days on which rain fell. The greatest fall in the 24 hours being 1·95 on the 20th. Total rainfall for the month, 5·13; for the year, 44·37.

TABLE I.—DEPTH OF RAIN IN INCHES, 1916.

Station.	Observer.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
Abbotsbury, New Barn	J. C. P. White	·97	5·83	3·54	·66	1·52	1·04	·88	4·12	3·66	5·80	4·77	5·93	38·72
*Ashmore Rectory	Rev. A. J. Reel	·160	5·96	3·07	1·65	2·28	2·13	1·97	4·84	2·69	6·19	4·77	4·55	33·48
*Beaminster, Hamilton Lodge	Fiennes Trotman	·164	6·98	3·66	·84	2·49	2·10	1·56	5·96	2·92	7·67	5·72	5·00	46·44
Bere Regis, Barrow Hill	A. Lucas	·156	5·14	4·02	·62	2·08	1·37	·95	3·59	3·59	6·41	5·54	6·01	40·88
*Bloxworth House	F. G. A. Lane	·171	5·95	4·18	·75	2·42	1·93	1·26	4·11	3·69	5·89	5·86	5·57	43·32
Bradford Peverell House	Mrs. Middleton	·145	5·63	4·18	·81	2·33	2·00	1·46	4·13	3·03	6·92	5·64	5·78	43·36
*Branksome Gas Works	T. W. Woodall	·135	4·59	3·17	·87	1·69	2·16	1·06	4·21	2·55	4·81	4·72	4·41	35·49
Broughtstone	F. W. Beckford	·203	5·98	3·85	·76	2·18	2·80	·97	4·50	3·15	5·51	5·72	5·02	42·47
Cattistock Lodge	H. H. Palaret	·213	7·66	3·09	1·20	2·49	2·03	1·15	5·72	2·53	8·29	6·62	5·48	50·39
Charlstock Vicarage	Rev. A. Lewis	·150	6·33	4·61	·72	2·68	2·46	1·22	6·03	2·86	7·51	5·99	4·55	46·48
Chelington Court	H. Birkinshaw	·163	7·09	3·76	·61	2·67	1·60	1·17	6·10	2·82	7·58	5·97	4·78	45·38
Chickerell, Montevideo	Mrs. N. M. Richardson	·75	4·81	3·17	·56	1·32	1·01	·95	3·79	2·61	5·21	3·56	6·38	34·10
Corfe Mullen, Poole Waterworks	Waterworks Engineer	1·47	5·86	3·54	·76	2·14	2·73	1·05	4·35	2·67	5·88	5·92	5·04	41·94
Greesh Grange	J. W. G. Bond	1·97	5·86	4·69	·54	1·93	1·85	1·63	5·34	2·61	6·35	5·22	6·79	44·28
Dorchester, "Kingscote"	E. Archdall Ffooks	·89	4·30	2·97	·41	1·90	1·31	1·00	3·93	3·34	6·58	4·86	5·62	36·46
*Dorchester, Wollaston House	Capt. John E. Acland	·166	5·04	3·93	·61	2·31	1·90	1·25	3·80	3·25	7·38	5·40	5·54	42·07
*Gillingham	S. H. Stephens	·155	5·61	3·44	1·29	2·51	2·23	1·95	7·36	3·47	6·10	4·96	4·24	41·67
Gussage Manor	Miss E. Good	·169	5·65	3·13	1·66	2·18	1·88	1·53	4·09	2·87	6·47	5·33	4·99	41·47
*Holne East	G. D. Bond	·134	6·28	4·22	·68	1·87	1·94	1·81	4·75	3·04	5·43	5·32	6·29	43·17
Horton Vicarage	Rev. G. Wellington	·128	7·02	3·03	1·13	1·76	1·91	1·08	6·17	2·94	6·34	5·39	4·51	42·56
*Iwerne Minster	W. Nash (for James Janay)	·127	7·14	3·88	·84	2·00	2·32	2·08	4·65	2·73	6·63	6·67	5·29	45·50
Kinson	W. Ch. Keevill	·210	5·52	4·64	·78	1·91	2·61	1·10	4·63	2·75	4·72	5·81	4·90	41·47
*Lyne Regis	H. W. Caddy	·99	5·91	3·33	·82	2·63	2·55	·74	4·80	2·29	5·19	4·67	4·61	38·88
*Lalworth, East, the Vicarage	Rev. W. D. Filhiter	·123	5·32	4·10	·70	1·61	1·22	1·11	4·79	3·43	4·86	4·74	6·61	39·75
*Portland, Breakwater	Officer in Charge	·89	5·45	3·49	·50	1·57	1·96	·75	4·35	2·55	5·51	4·98	6·39	37·39
*Shaftesbury	A. Macdonell	·154	4·94	2·87	1·10	2·57	2·50	1·62	6·40	3·34	4·15	4·15	4·05	40·26
*Sherborne Castle	Thos. Turton	·129	6·69	3·34	·97	2·35	1·77	·87	5·70	4·48	7·08	6·10	4·53	45·17
Sturminster Marshall, Ballie House	Rev. Jas. Cross	·138	5·15	3·48	·67	1·90	2·42	·93	3·78	2·94	5·49	5·24	4·69	38·07
*Sturminster Newton	A. R. Hallett	·67	5·93	3·32	·70	1·56	2·66	1·02	4·19	3·96	5·15	5·50	4·49	39·15
*Tisbury	Col. Parry Okefen	·225	6·04	4·92	1·37	2·21	1·99	1·44	4·69	4·85	7·29	7·22	5·65	49·90
Wareham	S. T. Bennett	1·47	6·02	4·21	·71	1·62	1·55	2·24	4·06	2·88	5·21	5·16	5·62	40·85
Wareham, Tl'on	Mrs. Leonard Sturdy	1·27	5·18	4·23	·61	1·78	1·48	1·25	4·44	2·87	4·97	5·41	5·51	39·98
*Weymouth, Fl at House	Mrs. C. E. George	·80	5·10	3·42	·52	·96	1·46	·84	4·22	1·62	4·63	4·06	5·70	32·83
*Wimborne, Coa rd House	G. E. Batterbury, M.D.	1·72	5·40	3·47	·77	1·77	2·11	1·04	4·22	2·70	5·49	5·10	4·64	38·43
Witchampton	Alice Louise Homer	1·28	6·02	2·99	1·03	1·78	1·47	·98	5·37	3·08	6·46	5·53	4·92	40·91
Winterborne Whitechurch.	Rev. H. H. T. Bassett	1·28	6·04	4·12	1·02	1·91	2·38	1·67	4·16	3·87	6·33	6·46	5·13	44·37
Winterborne Whitechurch, Long-thorns	E. R. Sykes	·170	6·16	4·31	·80	2·17	2·15	1·68	4·05	4·12	6·49	6·68	5·45	45·76

* The averages have been calculated from the Stations marked with an asterisk.

TABLE II.—RAINFALL IN 1916.

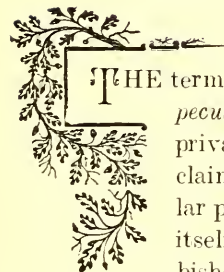
Stations.	Greatest fall in 24 hours.		Days with in. or more.	Number of Days on which '01in. or more was recorded.												
	Depth.	Date.		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
				In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
Abbotsbury, New Barn ..	2.40	Aug. 29	4	14	26	18	12	13	9	6	14	13	24	25	22	196
*Ashmore Rectory ..	2.70	Dec. 20	5	14	18	14	8	15	6	5	10	9	13	11	7	130
*Beamster, Hamilton Lodge ..	3.13	Aug. 29	9	16	26	20	13	15	16	8	16	10	22	19	17	202
Bere Regis, Barrow Hill ..	2.30	Dec. 20	4	15	25	21	10	12	15	8	7	15	21	20	16	182
*Bloxworth House ..	2.17	Aug. 29	3	16	25	21	9	12	14	7	15	10	21	20	15	185
Bradford Peverell ..	2.27	Aug. 29	2	14	21	20	13	14	11	8	14	13	24	21	13	186
*Branksome ..	2.45	Aug. 29	2	9	15	10	5	12	10	3	10	8	21	14	8	125
Broadstone ..	2.47	Aug. 29	3	18	27	23	13	16	14	11	14	11	24	23	22	216
Cartstock Lodge ..	2.25	Aug. 29	5	22	27	24	17	15	16	7	16	13	22	18	13	210
Cartstock Vicarage ..	2.37	Aug. 29	8	19	26	20	11	16	15	6	15	12	25	20	17	202
Chickering Court ..	3.08	Aug. 29	7	18	26	19	9	12	13	7	15	11	25	20	16	191
Chickering, Montevideo ..	2.52	Aug. 29	1	14	26	17	13	16	12	5	15	13	20	21	18	190
Corfe Mullen ..	2.18	Aug. 29	5	16	25	21	13	15	15	7	15	9	23	22	18	199
Creech Grange ..	3.30	Aug. 29	3	12	24	17	8	11	11	4	9	9	20	16	17	158
Dorchester, Kingscote ..	2.70	Aug. 29	3	12	24	17	8	12	8	5	9	9	23	22	14	163
Dorchester, Wollaston House ..	2.30	Aug. 29	6	15	25	20	12	14	10	6	14	15	22	21	16	190
Gillingham ..	2.48	Aug. 29	5	20	27	22	13	16	13	9	14	10	22	21	15	202
Gussage Manor ..	1.92	Aug. 29	4	14	24	19	13	13	16	7	13	11	23	18	16	187
East Holne ..	2.43	Aug. 29	2	13	24	20	12	12	14	7	13	11	23	21	16	197
Horton Vicarage ..	2.86	Aug. 29	4	16	25	23	15	14	13	7	15	9	24	20	16	197
Iwerne Minster ..	1.92	Aug. 29	9	17	27	25	13	17	14	9	13	11	24	19	17	206
Kinson ..	1.98	Aug. 29	4	18	24	26	13	14	17	9	13	13	23	24	18	212
Lyme Regis ..	3.11	Aug. 29	2	9	18	10	8	15	11	4	13	10	20	20	16	154
Lulworth, East ..	3.15	Aug. 29	2	13	23	20	10	13	9	5	11	12	22	18	16	174
Portland ..	2.31	Aug. 29	4	20	24	22	6	13	10	6	12	10	23	20	16	165
Shaftesbury ..	2.66	Aug. 29	7	19	27	22	16	17	15	8	14	11	23	18	16	198
Sherborne ..	2.01	Aug. 29	3	14	25	19	11	13	13	5	16	14	25	24	22	225
Sturminster Marshall ..	2.15	Aug. 29	5	7	24	19	7	12	13	9	13	11	19	19	15	168
Sturminster Newton ..	2.20	Aug. 29	8	19	19	22	15	15	13	8	15	12	26	21	16	201
Turnworth ..	2.24	Aug. 29	3	12	22	16	9	11	15	6	12	9	23	20	14	169
Wareham ..	2.36	Aug. 29	2	17	24	24	11	15	12	6	10	8	23	22	15	187
Wareham, Trigon ..	2.90	Aug. 29	3	9	19	14	3	7	7	4	11	8	14	16	13	126
Weymouth, Fleet House ..	1.95	Aug. 29	3	17	25	25	14	17	17	8	16	12	22	23	18	214
Wimborne, Colford House ..	2.40	Aug. 29	5	14	23	17	10	13	14	5	13	12	21	20	16	178
Winterborne Whitechurch Vicarage ..	1.95	Aug. 29	3	13	24	18	12	11	12	7	14	10	20	18	13	172
Winterborne Whitechurch, Longthorns ..	2.07	Aug. 29	4	19	24	22	12	15	12	10	16	12	23	23	14	202

* The averages have been calculated from the Stations marked with an asterisk.



A Dorset Ropal Peculiar.

By Rev. Canon J. M. J. FLETCHER, M.A., R.D.



THE term Peculiar is derived from the Latin word *peculiaris* (i.e., one's own, belonging to one's private property to which no one else has a claim).* In Canon Law it denotes "A particular parish, or church, having jurisdiction within itself, and exempt from that of the ordinary or bishop's court." Amongst the Anglo-Saxons the only judges in Church Courts were the bishops and such abbots as possessed exempt jurisdiction. In those days the archdeacon simply sat as representing the bishop in his ecclesiastical court, much as his steward would sit in his seignorial court; but he would have no independent jurisdiction. It was in no small measure due to an edict of the conqueror, which dealt with offenders

* To trace this derivation a little farther back, it is interesting to notice that *peculium* = private property, properly property in cattle, as well as *pecunia*, is derived from *pecus*—sheep, cattle (which, in turn is derived from a Greek word signifying *to shear*)—because the private property or riches of the ancients in a pastoral age consisted of flocks of sheep and herds of cattle.

against ecclesiastical laws and effected the separation of ecclesiastical from temporal courts, that after the Conquest the independent authority of the archdeacons became largely increased. And it was apparently with the object of limiting this power of the archdeacons that the office of Official was created in the twelfth century.

The *Ecclesiastical Courts* were fourfold :—

1. *Provincial Courts*, under the Archbishops and their officials.
2. *Diocesan, or Consistory, Courts*, under the Bishops and Chancellors.
3. *Archdeacons' Courts*, supplemented by the Agency of Rural Deans.
4. *Courts of Exempt Jurisdiction*, and Peculiars.

The *Jurisdictions Peculiar*, and exempt from the Diocesan, were again fourfold.

1. *Royal Peculiars*. “The King’s Free Chapel is a royal peculiar, exempted from all spiritual jurisdiction, and referred to the immediate government of the King.” (Wood’s Institute 530.)
2. *Archbishops’ Peculiars*. Wherever the Archbishop had an estate belonging to him, he had sole jurisdiction as Ordinary.
3. *Peculiars of certain Deans and Chapters*—e.g., *Salisbury, Lichfield, and St. Paul’s.
4. *Peculiars which ordinarily belonged to certain Monasteries*.

The *Royal Peculiars* in Dorset, as given by Hutchins, were :

1. *Wimborne Minster*, of which presently.
2. *Corfe Castle*, which probably derived its peculiar jurisdiction from Shaftesbury Abbey, to which the advowson of the rectory formerly belonged. It appears to have been, in reality, a Monastic and not a Royal Peculiar.

* The Dean of Salisbury instituted and inducted to 37 parishes in Dorset, the churches of which were “peculiar” under his jurisdiction.

3. *Canford Magna and Poole*. This was apparently an exempt jurisdiction belonging to the Priory of Augustinian Canons at Bradenstoke, Wilts. The Priory was founded by John of Salisbury in 1139, and the churches of Canford and of St. James', Poole, were given by the founder to that Priory. Canford having passed into the hands of the Crown this jurisdiction was called Royal, although in the first instance it was Monastic.
4. *Sturminster Marshal* was a possession of the alien Priory of Pont Audemar in Normandy. When, in the second year of King Henry V., the lands of the alien monasteries were given to the Crown, it would become a Royal Peculiar.
5. *Gillingham*.

One of the Tanner MSS.* gives a list of no less than 52 churches in the county of Dorset, which for some reason or other were Peculiars, and consequently exempted from Episcopal control :—

(This number includes, of course, the 37 churches belonging to the Dean of Salisbury alluded to above.)

A note of the Peculiars in Dorset who p'tend to (and at p'sent) be clearly exempt from Episcopal Jurisdiction or Discipline.

Being the fourth part of the best part of the County and the com'on seats for Schismatics :—

Lyme Regis	Pool
Maperton	Canford
Netherbury	Stowpaine
Beaminster	Beer Hackett
Mongerton	Long Burton
Wambrook	Hollnest
Halstocke	Caundle Marsh
Kimridge	Clifton Maybauke
Corfe Castle	Folke
Charmister	Gillingham
Fordington	Moxcomb

* Bodleian Lib., Tanner MSS. 129, No. 18.

Preston	Stower East
Sutton Priors	Stower West
Sturmister Marshall	Haydon
Milton Abbas	Lillington
Alton Paneras	Nether Compton
Anderston	Over Compton
Bere Regis	Oburne
Kingston	Rime intrinseca
Bloxworth	Stockwood
Frome Whitfield	Strattern (Stratton)
Corfe Mullen	Shearbourne
Lower Litchett	Thornford
Thomeston	Yatminster
Turner Piddle	Leigh
Wimborne Minster	Chetnole

The Benedictine Nunnery, which had been founded at Wimborne by St. Cuthberga sometime in or before the year 705, is said to have been destroyed by the Danes (probably early in the eleventh century), and to have been refounded, as a secular community with Dean and Canons, by Edward the Confessor, the founder of Westminster Abbey.

From the middle of the eleventh century, with the exception of a short period when it was granted by King Henry to Robert Count of Meulan, and by his son (King) John, to the Augustinian Priory of St. Stephen, Plessis in the diocese of Bayeux, in Normandy, the Deanery of Wimborne Minster appears to have been in the gift of the Kings of England, and so to have continued until the dissolution of the chapter in the first year of the reign of Edward VI.

That the King looked upon Wimborne as belonging to himself, and that he would brook no interference with what he considered his royal prerogative, even from the Pope himself, is evident from the following extract :—

20 August, 22 Henry III. (1238). To the Bishop of Salisbury and the Archdeacon of Wells :

Whereas the King has heard that W. de Badeston, clerk, has obtained apostolic letters directed to them to provide for him in some church in the diocese of Salisbury, and they by the same authority have seen fit to provide for him in the church of Shapwyk, belonging immediately to the deanery of Winburn ; and whereas the said deanery is a

special chapel belonging to the King and is known to pertain to his patronage ; in order that they should not confer any prebend or church in the said deanery upon the said W. or other, the King inhibits them, commanding them to revoke what they have attempted ; and that they go no further he appeals to the apostolic see and appoints Philip de Salfeteby as his proctor to make such an appeal.*

1307, March 28. To the collectors of the procurations of . . . cardinal of the Roman Church. Order prohibiting them from exacting procurations for the use of the cardinal or any exactions by reason of which it may be necessary for the king to apply a heavier hand as his free chapels (Wymbourn, &c.) are exempt from all exactions, contributions and procurations whatsoever :—and the king learns that they exact procurations as above from the dean and chapter and coerce them to pay them. ‡

In 1312 it is described as a *royal free chapel* :—

June 24. Protection for one year for Stephen de Malo Lacu, dean of the King's free chapel of Wyburne Minstre. §

In the Patent Rolls are constantly to be found notification of grants made of the deanery of the king's free chapel at Wymburnemynstre (or Wyborne Mynstre) in the diocese of Salisbury, *e.g.*, to Richard de Swynnerton, king's clerk, in 1335† to Richard Murymouth in 1338, to Robert de Kingeston in 1342, to Thomas de Clopton in 1349, to Thomas de Brembre in 1350, &c., &c.

1315, April 15. Order to the dean of the free chapel of Wimburn, &c., &c. . . , to appoint certain persons in whom he can confide to collect a tenth of the benefices (*sic*) pertaining to the chapel which are exempt from the jurisdiction of the ordinaries. ||

1318. Feb. 7. To Master Roger de Asserio, Canon of Orleans. Order forbidding his attempting anything to the prejudice of the king or of the free chapels of . . . Wymburne mynstre, &c. . . . and to revoke any thing he may have attempted in this behalf—as the king understands he exacts from the dean and prebendaries of the chapels intolerable impositions and payments, and compels them to pay by ecclesiastical censure, whereas they are free chapels of the

* Patent Rolls 22, Henry III., m. 2.

‡ Close Rolls, 35 Edward I., m. 11 d.

§ Patent Rolls, 5 Edward II.

† Patent Rolls, 8 Edward III., m. 5.

|| Close Rolls, 8 Edward II., m. 9.

king and exempt from all ordinary jurisdiction and from all contributions.*

On Feb. 20, 1331, a Commission is appointed, consisting of John de Carleton . . . Richard Turbervill (and others), to make a visitation of the king's free chapel of Wymbournemynstre, which is exempt from the jurisdiction of the ordinary, as the king is given to understand that there have been great destructions in the chapel itself, as in books, vestments, and ornaments as well as in the prebends, manors, lands, and possessions pertaining thereto, and in the houses, woods and gardens of these, in the times of previous deans of the chapel, that very many of the lands and possessions conferred on the chapel by the kings progenitors are withdrawn, alienated and dissipated, and that divers liberties and privileges granted to the chapel have been lost by the negligence of the deans aforesaid. †

In some of the Churchwardens' Accounts—*e.g.*, for the years 1538, 1539, 1540, the Wardens are described as "Churchmen and keepers of the goods and Recyvou'rs of the Rentts, Quit Rents, lands and tenements belonging to the Coledge Church and the kyngs fire chaell ther" (*i.e.*, at Wimborne Minster).‡

Enough has been said to show that from quite early times Wimborne Minster was a Royal Peculiar, and that it continued such until the middle of the sixteenth century.

The College, with all its chantries, &c., was dissolved by the Chantry Act, 1 Edward VI., and the dean and the four prebendaries were pensioned off. The Church estates came into the hands of the King. During the ensuing 15 years the Church was badly served. Letters patent were therefore obtained from Queen Elizabeth in 1563, under which twelve governors were appointed, to whom the custody of the re-founded Grammar School was committed with the appointment (and dismissal if necessary) of the schoolmaster, and of three presbyters and their clerks who were responsible for the conduct of divine service, and the care of the souls of the in-

* Close Rolls, 11, Edward II., m. 10 d.

† Patent Rolls, 25 Edward III., m. 36 d.

‡ Churchwardens' Accounts, Wimborne Minster, Vol. 1., pp. 118, 122, 125, &c.

habitants of the district. To the Governors was given a common seal, and the privilege to sue and be sued as a body corporate. Various tithes and estates were committed to them, under this and succeeding charters. "with all ecclesiastical power, authority and jurisdiction within the parish of Wimborne Minster,"* which in former times had belonged to the College, &c.

The ecclesiastical authority of the dean and chapter passed to the twelve governors, who delegated their authority to an "Official of the peculiar and exempt jurisdiction of Wimborne Minster" whom they appointed to serve during their pleasure.†

The Consistory Court at Wimborne was held in that portion of the north aisle of the Minster which is situated to the west of the north porch. The panelling which is still to be seen against the west wall marks the place where the "Principal Official" sat as Judge.

Frequently he was one of the "Three Presbyters," or "Ministers" of the Church, though sometimes a layman of position and eminence was appointed to the post. Occasionally one of the "Ministers" also acted as surrogate. The Principal Official, who bore the title of "Worshipful" (*Vir Venerabilis*), was assisted by a "Register," who must be a Notary Publick. His Court was a Probate Court for the proving of wills and for granting letters of administration, and for receiving bonds and inventories. He had the power of granting marriage licences. The Churchwardens and Sidesmen were "sworn" before him, and "presented" the condition of church and churchyard and the need of repairs, if any. He sat as Judge when presentments were made by the Churchwardens against persons for various offences. Amongst these were

The non-payment of tithes and of Church rates.

The non-payment of Court dues.

* Cf. Minutes of Church Governors of W.M. of August 9, 1763. "Jura ecclesiastica, profana, jurisdictiones ecclesiasticas, ac omnia alia preheminentia, prerogativa, jura," &c., &c. (Charter of Charles I., 25 March, 1639).

Clandestine marriages, and marriages without the authority of the Court.

Bastardy, and immoral living.

Non-Conformity.

Non-attendance at Church, or at the Holy Communion.

Intrusion, or bad behaviour in Church.

The breaking of the Sabbath Day.

Accusations of abusive conduct and of quarrelsomeness.

The penalties were fines, in addition to court fees (the fines being apparently given to the poor), the public performances of acts of penance, excommunication, exclusion from the company of their fellows, &c.

The earliest post-Reformation "sitting" of the Court of which we have a record is that of 25 July, 1573, when an agreement come to between the Governors and the parishioners relative to tithes "was decreed and registered in the ecclesiastical court of the peculiar of Wimborne."*

The following are some of the "presentments" which are recorded :—

1595. Christopher Syler "for sitting by the fire in the sarmon tyme" and saying he would go to the church "when he listeth."

1599. Oct. 22. Thomas Norman† one of the ministers of the church was presented to "the offyciall and register of thys peculyar jurydyeyon of Wymborne" for refusing "to read divine searvis according to her ma'ts lawes, to celebratte the blessed sacrament of the

* Cf. *Hutchins' History of Dorset* (last Edition), Vol. III., p. 193.

† Upon Mr. Thomas Norman's appointment on Jan. 20, 1596-7, he was so highly thought of by the Governors that he was "returned by patent *for the term of his life*" (and not, as was customary, merely *during the pleasure* of the Governors) "to preach in the church of Wimborne so often as he may, and to be resident there at the yerely ffee of XLli quarterly to be paid." (*Minute Book of the Governors*). His salary of £40 was three times that received by the other Ministers (£13 6s. 8d.). Nine months later, when Mr. John Geare was elected "Scholémaistre," there is a note in the Minute Book to the effect that "Mr. Norman at his pleasure is to have recourse unto the School as often as he will to examine how the children do profit and thereof to certify to the Corporation." (Oct. 21, 1597).

bodie and blood of our Lord and Saviour Jesus Chryste to the parish-ioners of Wymborn, to baptise infants, to visite the sicke, to praise, or to give thanks to God for women after childe birthe, and to wear such habits as is appointed by the ecclesiastycall orders and lawes of this realme," &c.

1601. "Magister Thomas Norman" and Henry Allen had "a difference" (quarrel) which needed settlement.

Mr. Norman was not infrequently presented; but without effect, for in the year 1611, Thomas Norman, "our Minister," was cited for not wearing a surplice, reading the prayers, or administering the Sacraments.

Anna Toogood, the wife of Thomas Toogood, "one of our Ministers," does not appear to have had the peaceable disposition which might have been expected in a clergyman's wife; for no less than four times in the space of sixteen months (1601-2) she appeared either as complainant or as defendant in actions for the use of abusive words or for defamation of character.

On February, 1601-2, Henry Topnell was presented for keeping company in his house on the "Saboth" in the time of divine service, and five other men were "presented" for being there with him. A week later Anthony Witt, William Osmond and — Hollowaye were charged with being "at breckfast" at Tapnell's house in the sermon time.

On May 5th, 1602 John Keynell was presented for being "a common drunckard," and Arthur Mylles for "Keepinge card playenge in his house, the 2nd of Maye being Sondaie."

Other presentments were :—

William Forrist for keeping his shopp open.

Michael Dike and John Stronge for talkinge in the churche in the sermon tyme.

Thomas Woodman and his Son for playing in the time of servis and sermon in the tythinge of Lighe (Leigh).

Thomas Fripp "for playenge of tables and keepinge of companey on Whit-Monday last in the church house on service and sermon tyme."

Barnaby Dugdale for "Keepinge of an alle" (ale) and much company in his house in the service and sermon time.

John Mowlam for "being at Lighe at an ale all service and sermon time."

Robert Allyn "for beinge at whome with other company in the service and sermon time at eveninge prayer on the 18th of July, and further he is presented for sitting in the cokerowe*, raylinge and drawinge company to him, he called us knaves and bagige fellowes and he woulde not come to the church at the same day."

John Dale for fighting and brawling in the churchyard.

Henry Locke was presented by the Register "for abusing me in my office and miscallange me, callange me an asse, and sayinge that if I did use this kind of means I woulde drawe all people uppon my cares."

Simon Smith for sittinge in the quier at prayer time and keepinge the quier men out of their places.

John Burde for mending shoves (shoes) on the Saboth day in the time of prayer.

There were a large number of presentments of those who absented themselves from church or from "the Eucharist."

For absence from church the fines were usually 12d. "for the use of the poor," in addition to Court fees. For incontinency, both men and women were condemned to stand in the Church, on one, two, or three "Saboth" days, clad in a white sheet, and with a rod in the hand, "after the manner of a penitent," and publicly to confess their sin. In one instance the penitent is expressly ordered to stand thus *during the whole time of morning service*. As the prayers lasted from 8 to 10, and the sermon from 10 to 11, it would

* The Cokerowe, or Cooks row, as it is now called, is the row of cottages facing the North side of the Minster.

mean standing for three hours. In one case the penance had not been carried out, and a fine of £6 13s. 4d. "for the use of the poor" was imposed instead.

The following are copies of the Churchwardens' presentments some two generations later :—

We present Thomas Morren, Robert Pope and Edith his wife, Samuel Baxter, Richard Coffin of this Towne, and James Bayly and Roger Barnes, of Holt, of the p'ish of Wimborne aforesayd for p'sons inconfomable to the Government and Ordinaries of the Church, Neglecters of the Common Prayer and Holy Sacraments and have not received the Holy Sacrament at all in this yeare of our Churchwardenship as wee are informed.

Item We present Rich. Coffin, Tho. Mirren, Ralph Eason of our Towne of Wimbourne ffor having severall Children that are not Baptized according to the order of ye p'scribed by the Booke of Common Prayer as we are credyibly informed and as the Common Report goeth in our Towne.

I. We present Hester True and Mary True for unconformists to the Church Governmentt and living under the notion of Anna Baptists or Quakers.

It' we present all those whose names are specified in the schedule anexed for non-payment of Church Rate.

* William Frampton Churchwardens.

John Ansty

Here follow 33 names, amounts of rates unpaid varying from 1s. to £2 14s.

I present Phihpp Faury. Henry Faury, John Percy and Richard Debben for playing unlawful games as Coytes or the like upon the Saboth day at tyme of divyne service.

Robert Pope

Sy'man

The presentments of the Churchwardens of Wimborne Minster made given up unto the Official's Court there the 10th daye of Januarye, 1666.

Imprimis we present Martha Russell widd. and Elizabeth Spencer wife of Will. Spencer for pratizing the Office of a Midwives without beinge sworne or tackinge Licence from the ordinary as we beleive.

Thomas Redman and his wife of holte for not coming to the sacrament and not receaveing the same.

* Undated : But John Ansty and William Frampton were Churchwardens from 1664 to 1666.

It. we present Obidia Clarke and his wife and Thomas Bearnese and his wife of this Towne and Mary Spencer widd. about holt for inconformists to the government of the Church of Englinge negleeking the ordinance of the Church for not receavinge the holy sacrament of the Lords Supper.

It. we present John Budden for killinge of 2 Bullocks upon the Saboth Days.

It. we present Mary younge of winborne minster and Penelope Gullett of Cowgrove for haveing Basse horn children.

Will Goddard

Christopher Markwell Churchwardins.

In August 1668, John Dawe, John Wagge, and Nathaniel Lewin were presented for neglecting their own parish Church "at tyme of Divine Service and the receaving the holy sacramente."

In 1672, in addition to three cases of incontineney, one of the Churchwardens, Will Catton* and two of the sidesmen, Ruben Bailey and Josias Frampton, presented :—

"John Browne, junr., Nicholas Perham, John Greene, Robert Temple, William White, and William Bennett for intruding into the Quire of our Church, and setting there in ye stalles (where they have not p'tence of Rite) there at time of divine service and thereby disturbing ye Ministers and singing Men of o'r Quire."

Undated.

John Fairchild was presented for continued contumacy.†

The sentence of the Court was that the Ministers were to give notice in Church during the time of Divine Service that no one is to hold any communication with him :—Not to eat or drink with him, or to buy from him or sell to him ; or to be in his society under penalty of being themselves excommunicated.

The following form of confession to be publicly made by the penitent is undated ; but, as Mr. William Watkinson was

* An illustration of a $\frac{1}{4}$ d. token issued by William Catten, in 1666, is given in *Hutchins' Dorset*, Vol. III., opposite page 224, cf. also Williamson's Edition of *Boyne's Trade Tokens*, Vol. I., p. 197. I understand that no specimen of W. Catten's token is known to be in existence. J.M.J.F.

† *i.e.* Failing to appear in answer to the summons.

Principal Official from 1686 until 1696, we get the approximate date.

It seems difficult to realise that such a penance could have been undergone in one of our English Churches so recently as during the closing years of the seventeenth century :—

A penance enjoined by the Wor^{ll} Philip Traherne, Clerke, Surrogate to the Wor^{ll} Will^m Watkinson, Clerke, m^r of Arts Official of the peculiar and Exempt Jurisdiction of Wimborne Minster in Com. Dorsett.

To the Ministers of Wimborne Minster aforesaid :

Whereas Luce Brewer of your Towne has lately been p'sented by the Churchwardens and Sydesmen of your p'ish for comitting the sin of ffornication and haveing lately had a bastard child borne of her body. And thereupon being legally convened before the said Surrogate She in open Court confessed herself guilty of the crime aforesaid. Whereupon she is enjoined to come into the P'ish Church aforesaid on Sunday the xxixth day of November instant. And then and there being covered all over with a white Sheete from the Neck downwards and holding in her hand a white rodd of an ell long before you and the Congregation then assembled at the time of Divine Service and before Sermon to make this Confession in an humble manner, as followeth viz :

I Luce Brewer doe here before Almighty God and in the p'sence of you my good neighbours, humbly confesse and acknowledge that out of my own private Will and Spiritt, and at the instigation of the Devill, I have soe much misdeameaned myself in my life and Conversation, by com'itting the damnable Sin of ffornication with one John Merritt the younger of Blandford in this County, and haveing a male bastard Child lately borne of my body, of which Childe he is the ffather, that I am of all Creatures most miserable, unless Alhnighy God out of his infinite mercy and goodness be pleased to forgive me. And since without hearty Repentance none can expect mercy, I doe here againe acknowledge my deadly Sin, and sincerely repent me of the same, Be-seeching Almighty God to forgive me, and to give me his grace for the future, that I may never more be guilty of the like or any other Sin whatever ffor the obteyning whereof I earnestly begg you my good Neighbours here present to joyne with me in prayer Saying—Our ffather &c.

Then follows the certificate given by Mr. Nicholas Taylor, one of the Minster Clergy, that the penance had been carried out.

I certify the wor^{ll} Officiall aforesaid, or his Surrogate that this penance hath been duely performed by the above Sayd Luce Brewer.

witnesse hand,

Nicholas Taylor.

The tithes of the parish belonged to the "Governors," for the defrayment of the expenses of the Grammar School and of the Minster. There were frequent presentments by the Governors of inhabitants of the district "in causes of subtraction (*i.e.* non-payment) of tithes." On March 31st, 1744, one Samuel Bugden was proceeded against by "The Governors of the possessions, revenues, and goods of Queen Elizabeth's Free Grammar School in Wimborne Minster." He was cited and did not appear. Thereupon public proclamation was made for him. On his non-appearance, the Judge (the Rev. Fill Cox, who was then Principal Official), on the application of the proxy of the Governors, pronounced him contumacious; but reserved "the pain of such his contumacy until next Court day."

When the Court next met on May 22nd, his case was again brought forward, and upon his not appearing, after being thrice called, he was pronounced "in contempt," and the Judge pronounced in penalty thereof sentence of ex-communication against him. On July 7th Samuel Bugden appeared in person, and desired to be absolved from the sentence of ex-communication. Upon his request, having first taken the oath that he would well and truly obey the mandates of the Court in all things just and reasonable, and having paid the (Governors') Proctor's fees on this behalf, "The Judge absolved him from the said sentence, and restored him to the faithfull" and he was discharged.

It will be noticed from the account given of the above case that the Court did not meet in the middle of the eighteenth century nearly as frequently as in former times. The presentments for offences against morality and order had become few in number. Not perhaps that the country in general and Wimborne in particualar had become more moral or law abiding, but probably because people were beginning

to care less for ecclesiastical censure. Many of the cases now appearing on the Court rolls were citations of the executors, or of the "possessors of the goods," of deceased persons.

The glory of the Peculiar Court with its exempt Jurisdiction was departing. And at the commencement of the nineteenth century it had become little more than a Probate Court with very little business, and a Registrar's Office for the granting of (local) marriage licences.

The Peculiar Jurisdiction was finally abolished in the year 1846. The abolition of the jurisdiction of the Peculiars had been recommended by the Commissioners in the reigns of Henry VIII. and Edward VI. It had been suggested by Convocation in the time of Elizabeth. It found a place in Sir Walter Scott's Bill in 1822, which passed the Commons, but not the Lords.

Various Parliamentary Returns were made on the subject, and the returns were published in Blue Books issued in 1829—32.

Dr. Stubbs, in his Historical Appendix, I., to the Report of the Commission on Ecclesiastical Courts, 1883 (Vol I., p. 21, &c.), gives the following reasons for the abolition:—

1. They interfered with the beneficial exercise of the authority of the Bishop of the diocese.
2. The Emoluments were too small, and the causes too few for the Judges to be efficient and experienced.
3. They did not afford safe custody for wills. Consequently titles to real and personal estates were endangered. A knowledge of law was essential; but the practice was too small for its acquisition. Furthermore the costs of search in so many Probate Courts was great.

The Wimborne wills, administrations, and inventories are now at Blandford. The date of the earliest will is 1511. That the custody of the local courts, as stated above, was not sufficiently safe is shown by the fact that, with the exception of some wills proved here during the years 1511-12,

and 1520-21, there are none apparently in existence before the year 1590. The Canford wills, which also are at Blandford go back to 1639, those of Sturminster Marshall to 1641, and those of Corfe Castle to 1732.

There are still, however, some number of administration bonds, as well as marriage licences, citations, presentments, and decrees of the Court, &c., &c., preserved at Wimborne.

Before the abolition of the Peculiar, the fees paid to the Registrar "on administrations with will annexed and Probates" varied from £2 10s., when the effects were under £20, to £10 2s., when they were under £2,000, with an additional charge of 2s. 6d. for each folio exceeding three in number. Out of this sum, the Registrar handed over to the Official 6s. 8d. (At Canford, Corfe Castle, and Sturminster Marshall, the Official received 5s.)

In 1828 the total amount of fees received at Wimborne was £58 19s. 10d., of which the Official took £6 7s. 10d., the Registrar £52 9s. 6d., and the apparitor 2s. 6d.

At Milton Abbas the Registrar, when asked for details of his fees, in March, 1830, replied, we can fancy rather sadly : "The undersigned has no means of setting forth an account of those fees, *none ever* having been received by *him*. Septimus Smith, Blandford."

The number of wills proved at Wimborne in the three years preceding the enquiry was in 1826 none, in 1827 two, and in 1828 five ; two administrations being granted in 1826, one in 1827, and none in 1828. Thus the business of the Probate Court, which at one time had been very considerable, had dwindled away practically to nothing.

But, although the Court of the Peculiar with its Exempt Jurisdiction had come to an end in 1846 by an Order in Council (under an Act of Parliament—6 and 7 William IV., c. 77), officials continued to be appointed—to whom the privilege of granting marriage licences was still continued. The writer of this paper is the present holder of the office, having been appointed, on December 21st, 1915, "Principal

Official of the Peculiar and Exempt Jurisdiction of Wimborne Minster," after a lapse of nearly 30 years; but to him it is merely an honorary title, though a much valued one through its associations with the history and customs of Wimborne in by-gone centuries. Though he has the right of granting marriage licences he has never exercised it, as he was already a Surrogate for the diocese of Salisbury.

The following is a list of the officials, so far as they are known :—

To 1564 Robert Elliott.

1564 John Gilson.

1569 John Chapman.

1590 Ambrose Gilbert, alias White.

1592 John Barnes.

1609 William Stone, M.A. (Schoolmaster).

1637 William Kidgell (Schoolmaster).

1657 Gilbert Jones, LL.D.

1670 William Raven, M.A. (one of the three Presbyters, or Ministers, of Wimborne Minster. He died in 1683.)

1683 Aldrich Swan, M.A. (one of the Ministers 1680-1714).

1686 William Watkinson (resigned).

1696 Philip Traherne, or Traheron, B.D. (Minister 1684-1723).

1723 Harry Constantine, M.A. (Minister 1707-1730).

1744 Fill Cox, M.A. (Schoolmaster 1731-1748. Minister, 1748-1763).

1763 Henry Fitch, M.A. (Minister 1738-1768).

1768 James Hanham, B.A. (afterwards Sir James) (Minister 1753-1772).

1772 Charles Russell, M.A. (Minister 1768-1798), resigned.

1798 Sir James Hanham, Bart, LL.B. (Minister 1798-1849.)

1806 Henry Bankes, M.A.

1835 William John Bankes, M.A.

1841 Edward Bankes, B.C.L. (Canon of Gloucester).

1867 James Thomas Baskett.

(1870) George Evans.

(1872) until 1885. William Drnutt.

1885 until his death in Jan., 1886, Charles R. Rowe.

There seems to have been no formal appointment made, after the death of Mr. Rowe, until 1915, although successive Chairmen of the Governing Body appear to have acted in the capacity of Official, and the Rev. G. H. Billington, Rector of Chalbury, who was appointed "Surrogate" in 1887, held that office until his death in 1905. But, with the passing away of the old order of things at the Minster, and when a Vicar with his staff of assistant curates took the place of the three "Presbyters," and when the fashion of being married by licence was dying out and marriage "after banns" became popular amongst the moneyed classes, the applications for licences from the Wimborne Official or his Surrogate became very few and far between. When needed they were obtained from the Diocesan Registry at Salisbury instead.

1915 James Michael John Fletcher, M.A. (Vicar of Wimborne Minster from 1906, R.D., and Canon of Salisbury).

Dr. Pocock, Bishop of Meath,* tells of his visit to Wimborne on September 13th, 1750, and speaking of the Minster, its Clergy, and the Official, &c., he says "out of the Ministers the company (of Governors) name a Judge, who holds his courts and the common people call him Bishop." The same "title" was in use for the Official nearly 70 years later; for, on Sept. 29th, 1818, the Rev. James Mayo, who at the time was Usher and afterwards Head Master of the Grammar School at Wimborne, in a letter to his brother Thomas, writes:—

To morrow will be a very gay day here, as the Bishop of Salisbury holds a Confirmation, the first that has been held in this church (Wimborne Minster) for more than a century. He was invited by Bp. Banks. †

* *The Travels through England of Dr. Richard Pococke* (Camden Society).

† *The Family of Mayo*, by Rev. C. H. Mayo, p. 207 (n).

By " Bishop Bankes " he meant of course the Official of the Peculiar of Wimborne Minster. Mr. Henry Bankes, who held that office from 1806 to 1835.

The members of one family held the office for so long a period consecutively, upwards of sixty years, that the title of " Lay Bishop of Wimborne Minster " came to be looked upon as an hereditary one, and it is still assumed to belong to later representatives of the family, even though they have never held the office of Official.

The following books, &c., may be consulted with advantage by those who are interested in the subject :—

Blue Books.

Returns Probates of Wills, 1829.

Returns respecting Jurisdiction and Emoluments of Ecclesiastical Courts, 1830.

Reports, Ecclesiastical Courts of England and Wales, 1832.

Dr. Stubbs' Historical Appendix I. to Report of Commission on Ecclesiastical Courts, 1883, I., pp. 21, &c.

Proceedings of the Society of Antiquaries, 2nd Ser., Vol. V. (1872), pp. 238-250. Paper by Dr. C. S. Percival.

Consistory Courts and Consistory Places by Chancellor R. S. Fergusson, in *The Archæological Journal* (1899), Vol. LVI., pp. 85-122.

Hutchins' Dorset, Vol. III., pp. 265-267, &c. Various Seals used by the Deans, Officials of the Peculiar, &c., &c., are figured in Hutchins', Vol. III. (opposite p. 224).

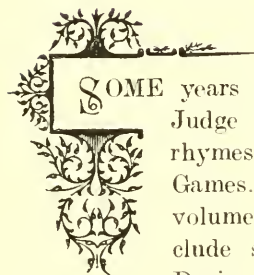
A Paper on the Seals of the Peculiars of Dorset by J. E. Nightingale is given in the *Proceedings of the Society of Antiquaries* (1890), Vol. XIII. pp. 165-8.





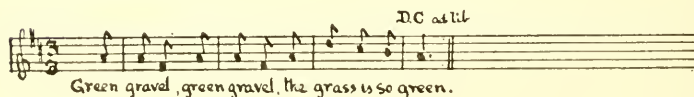
Dorset Children's Doggerel Rhymes.

By the Rev. HERBERT PENTIN, M.A.



SOME years ago our Vice-President, His Honour Judge Udal, F.S.A., made a collection of rhymes connected with Dorset Children's Games. They were published in the seventh volume of the *Folk Lore Journal*, and include some of the best known examples. During my residence in the county it has also been one of my pastimes to make a large collection of such rhymes, and a few of the most interesting and curious are here reproduced :—

GREEN GRAVEL.

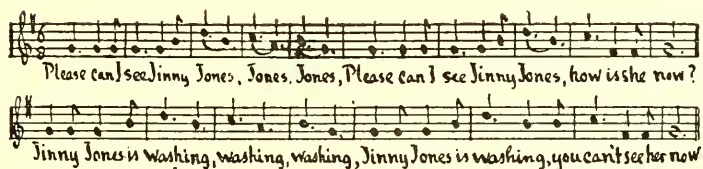


Green gravel, green gravel, the grass is so green ;
The fairest young lady that ever was seen ;
Ah ! *Mary*, Ah ! *Mary*, your true love is dead,
He sends you a letter to turn round your head.

This dismal little game is obviously a dramatic representation of mourning; and the suggested explanation of "green gravel" as a corruption of green grave is almost undoubtedly the right one. It has been wondered if the words "turn round your head" have a reference to an old custom of the attendants on a corpse newly laid out returning into the death-chamber backwards.

This rhyme, with variations, is found in nearly every part of England. In some parishes "gravels" or "grasses" takes the place of the more correct "gravel." The Dorset tune, given above, differs from the North Country tune.

JINNY JONES.



- I. *Enquirers.* Please can I see Jinny Jones, Jones, Jones,
Please can I see Jinny Jones; how is she now?
- II. *Jinny's Mother.* Jinny Jones is washing, washing, washing,
Jinny Jones is washing; you can't see her
now.
- III. *Enquirers.* Very well, ladies, ladies, ladies,
Very well, ladies, and gentlemens too.
- IV. *Enquirers repeat the first verse.*
- V. *Jinny's Mother.* Jinny Jones is ironing, ironing, ironing,
Jinny Jones is ironing, you can't see her now.
- VI. and VII. *Enquirers repeat the third and first verses.*
- VIII. *Jinny's Mother.* Jinny Jones is ill, ill, ill,
Jinny Jones is ill; you can't see her now.

IX. and X. *Enquirers repeat the third and first verses.*

XI. *Jinny's Mother.* Jinny Jones is worse, worse, worse,
Jinny Jones is worse; you can't see her now.

XII. and XIII. *Enquirers repeat the third and first verses.*

XIV. *Jinny's Mother.* Jinny Jones is dead, dead, dead.
Jinny Jones is dead; you can't see her now.

XV. *Enquirers.* Please will red do, red do, red do ?
Please will red do ? Will that do ?

XVI. *Jinny's Mother.* Red is for soldiers, soldiers, soldiers,
Red is for soldiers; that won't do.

XVII. *Enquirers.* Please will blue do, blue do, blue do ?
Please will blue do ? Will that do ?

XVIII. *Jinny's Mother.* Blue is for sailors, sailors, sailors,
Blue is for sailors; that won't do.

XIX. *Enquirers.* Please will white do, white do, white do ?
Please will white do ? Will that do ?

XX. *Jinny's Mother.* White is for weddings, weddings, weddings,
White is for weddings; that won't do.

XXI. *Enquirers.* Please will black do, black do, black do ?
Please will black do ? Will that do ?

XXII. *Jinny's Mother.* Black is for mourning, mourning, mourning,
Black is for mourning; that *will* do.

The double plural of gentleman—"gentlemens"—is delightful. The children, of course, know that it is incorrect, but they rightly depart not from tradition. The game is evidently a girls' game. No sooner is Jinny Jones announced to be dead than the enquirers think about their dresses for the funeral. Will their old red, blue, or white dresses do ? Alas ! no. They must have black. Possibly for some this means an outlay ; but it also means a new dress. And, with cheerfulness, Jinny Jones is laid to rest.

HATCH IN THE BOOBERNEE.

Hatch in the boobernee,
 Hatch in the boobernee,
 It's on a Sunday Monday night
 Whoop !
 Catch in the boobernee.

Whatever is the meaning of this first line, and the "boobernee" in particular? "Sunday" may be a corruption of "sultry." It is hardly worth while to give the melody of this and the rest of the rhymes. The two printed are typical.

ALL AROUND THE COTTAGE.

- I. All around the cottage (*repeated three times*)
 As you have done before.
- II. In and out the windows (*repeated three times*)
 As you have done before.
- III. Stand and face your lover (*repeated three times*)
 As you have done before.
- IV. Trace her off to Wimborne (*repeated three times*)
 As you have done before.
- V. Bring her back and kiss her (*repeated three times*)
 As you have done before.

SALLY, GO ROUND THE MOON.

Sally, go round the moon,
 Sally, go round the sun,
 Sally, go round the chimney-pot.
 On a Sunday afternoon.
 Whoop !

If the "sun" and the "moon" were to change places, the rhyme would be improved; but in nearly all parts of the county the "moon" takes the precedence.

BETSY BUMBLE-BEE.

Betsy, Betsy Bumble-bee,
 She fell down and broke her knee.
 Where's the loek, and where's the key ?
 Turn the key right over.

WALLFLOWERS.

Wally, wally, wallflowers,
 Growing up so high,
 All these little maidens
 They are sure to die,
 Except (*child's name*),
 And she's the best of all,
 She can hop, and she can skip,
 And she can turn the candlestick.
 Fie ! for shame ! Fie ! for shame !
 Turn your back to the wall again.

DRAW A BUCKET OF WATER.

Draw' a bucket of water
 For my lady's daughter ;
 Milk the cows, and serve the sows,
 And drive the ducks to water.
 One go rush,
 Two go rush,
 Pray, young lady, get under the bush
 (*i.e.*, of crossed hands).

THERE STANDS A LADY ON THE MOUNTAIN.

I. There stands a lady on the mountain,
 Who she is I do not know.
 All she wants is gold and silver,
 All she wants is a nice young lover. (*Choosers.*)

II. Now you're married I wish you joy,
First a girl, and then a boy.
Seven years after, son and daughter,
Pray, young couple, kiss together.

III. Kiss her once, kiss her twice,
Kiss her three times over,
Marry her once, marry her twice,
Marry her three times over.

BETTY AND HER DUCKS.

. Oh ! Betty, Betty, have you seen my ducks to-day ?
Where, boy, where ?
All in that yonder pond,
There, boy, there.
Betty and her ducks, ducks and Betty,
Oliver and his deer, deer and Oliver,
Roland and Oliver,
The king and the king his deer
Now and for evermore:

II. Oh ! Thomas, Thomas, have you seen my horse to-day ?
Where, boy, where ?
All on that yonder plain,
There, boy, there.
Thomas and his horse, horse and Thomas,
Betty and her ducks, ducks and Betty (*etc. as before*).

III. Oh ! Agnes, Agnes, have you seen my geese to-day ?
Where, boy, where ?
All on that yonder common,
There, boy, there.
Agnes and her geese, geese and Agnes, Thomas and his horse,
horse and Thomas, Betty and her ducks.
(*etc. as before*).

- IV. Oh ! huntsman, huntsman, have you seen my hounds to-day ?
 Where, boy, where ?
 All in that yonder cover,
 There, boy, there.
 Huntsman and his hounds, hounds and huntsman,
 Agnes and her geese, geese and Agnes, Thomas and his horse,
 horse and Thomas, Betty and her ducks, ducks and Betty,
 Oliver and his deer, deer and Oliver, Roland and Oliver, the
 King and the King his deer, Now and for evermore.

The plan of this rhyme, the building-up process, reminds one of the very ancient and much discussed Dorset folk-song, " The Twelve Apostles."

ROSY APPLE, LEMON, AND PEAR.

- I. Rosy apple, lemon, and pear,
 A bunch of roses she shall wear.
 Gold and silver by her side,
 I know who'll take her as his bride.
- II. Take her by her lily-white hand,
 And lead her to the altar ;
 Give her kisses, one, two, three,
 Mrs. (*name's*) daughter.

PLEASE, MOTHER, MAY I GO OUT TO PLAY ?

Please Mother, please Mother,
 May I go out to play ?
 I won't go near the water
 To drive the ducks away.

The first answer is " No, no, no, " but when the rhyme is repeated, the answer is " Yes, yes, yes." The children then go and pretend to drive the ducks away with a " Shoo-oo-oo."

OR

Please Mother, please Mother, may I go out to play ?
 (*Ans.*) No children, no children, this wet day.
 Why Mother, why Mother, we won't stay long ?
 (*Ans.*) Give me three curtseys and then run along.

Then this prose dialogue follows :

- Children, I call you. (Ans.) Yes, mother, I hear you.
- Where have you been ? (Ans.) Down to Granny's.
- What did she give you ? (Ans.) A piece of plum-pudding.
- Where's my share ? (Ans.) In top cupboard.
- 'Tisn't there. (Ans.) In bottom cupboard.
- 'Tisn't there. (Ans.) Cat have eat it.
- Where's the cat ? (Ans.) In wood.
- Where's the wood ? (Ans.) Fire burnt it.
- Where's the fire ? (Ans.) Water douted it.
- Where's the water ? (Ans.) Ox drunk it.
- Where's the ox ? (Ans.) Butcher killed it.
- Where's the butcher ? (Ans.) Up behind Church door
cracking up nuts ; we'll eat the kernels, you can eat the shells.

The dialogue varies slightly in words and length in different parishes. Instead of "plum pudding" we get "bread and jam," "a piece of bread as big as my head, and a piece of cheese as big as my knees ;" "a rusty farthing" with which "a farthing cake" is bought," &c. Sometimes a "mouse" eats the plum pudding instead of the "cat ;" and a "horse" is killed instead of an "ox." Notice in the "answers" the typical Dorset omission of the definite article. The opening verse, I think, originally belonged to another game known as "Granny Gray."

PUT ALL YOUR RIGHT HANDS IN.

- I. Put all your right hands in,
Put all your right hands out,
And shake 'em a little, a little, a little,
And turn yourselves about (*Action accordingly*).
- II. Put all your left hands in (*etc. as before*).
- III. Put all your right feet in (*etc. as before*).
- IV. Put all your left feet in (*etc. as before*).
- V. Put all yourselves in (*step forward*).
Put all yourselves out (*step backward*).
And shake 'em a little, a little, a little,
And turn yourselves about.

UNCLE JOHN IS VERY SICK.

Uncle John is very sick,
What shall I send him ?
A piece of pudding as long as my arm,
I'll send it in a basin.
Who shall I send it with ?
With the gardener's daughter ;
She's neither in, she's neither out,
She's in the garden walking about,
When she comes in, she's drest in silk,
She takes off her glove, and shows her ring.

The wedding shall be,
The children shall sing,
We all clap our hands
When the wedding begins.

There are evidently some lines missing in the first part of this corrupt "rhyme." Another version is :—

Uncle John is very ill,
 What shall we send him ?
 Two and three kisses,
 Two and three kisses,
 And send him a bottle of brandy.
 Who shall we send it by ?
 By the golden saucer.

(*Lines missing.*)

HERE COMES AN OLD WOMAN FROM SANDY LANE.

Here comes an old woman from Sandy Lane
 With all her children bright and gay ;
 One can knit, and the other can sew,
 The other can make a lily-white bow.
 And one can make a dress for the Queen,
 And one she can do everything.

The fairest one that I can see
 Is (*child's name*). Come to me.

You naughty girl, you won't come out, you won't come out, you won't
 come out,

You naughty girl, you won't come out to help us in our dancing.

Or :—Pretty Miss, will you come out, will you come out, will you come
 out ?

Pretty Miss, will you come out and take a cup of tea ?

HARK ! THE ROBBERS.

I. Hark ! the robbers are coming through, coming through,
 coming through.

Hark ! the robbers are coming through, my fair lady.

II. What did the robbers *do to you* ? (*repeat thrice*).
 What did the robbers do to you, my fair lady ?

III. Took my watch and *broke my chain* (*repeat thrice*).
Took my watch and broke my chain, my fair lady.

IV. Half-a-sovereign *they must pay* (*repeat thrice*).
Half-a-sovereign they must pay, my fair lady.

V. Half-a-sovereign *they've not got* (*repeat thrice*).
Half-a-sovereign they've not got, my fair lady.

VI. Off to prison *they must go* (*repeat thrice*).
Off to prison they must go, my fair lady.

A longer version exists in which the robbers are accused of stealing "a new silk dress" as well as the watch and chain. They protest that they have none of the things, whereupon "fifty pounds" is named as damages. But the longer version is a more definite dialogue between the robbers and the "fair lady."

HERE'S A PRETTY LITTLE GIRL OF MINE.

I. Here's a pretty little girl of mine.
She brought me many a glass of wine,
A glass of wine and a biscuit too,
See what my little girl can do.

II. On the carpet she shall kneel,
As the grass grows in the field,
Stand up right upon your feet,
And choose the one you love so sweet.

III. Choose to the east, and choose to the west,
Choose the gold and silver,
Write it down with a golden pen,
And tell me who's your lover.

Variant readings: "A *bottle* of wine." "Choose the *white* and choose the *black*;" "Choose to the *right* and choose to the *left*." "Write your name in a penny gold ring."

The following rhyme has some points in common :—

I've got a bonnet trimmed with blue.
 Why doesn't weäre it ? Zo, I do ;
 When do you weäre it ? When I can,
 When I go out wi' my young man.
 My young man is a-gone to sea,
 When he comes back he'll marry me,
 marry me, marry me.
 When he comes back he'll marry me.

Zee what a purty zister is mine,
 Don't 'e think she's ter'ble fine ?
 She's a-most ter'ble cunnen too,
 Just zee what my zister can do.
 On the carpet she can kneel
 As the grass grows in the fiel'.
 Stand up right upon thy feet,
 And choose the purtiest you like, sweet.

QUEEN ANNE.

Queen Anne, Queen Anne, she sot in the sun,
 So fair as a lily, so white as a nun,
 She had a white glove on,
 She drew it off, she drew it on,
 Turn, ladies, turn.

The more we turn, the more we may,
 Queen Anne was born on Midsummer Day,
 We have brought three letters from the Queen.
 One of these only by thee must be seen.

We can't read one, we must read them all,
 Please (*naming some one*) deliver the ball.

WHEN FIRST I WENT TO SCHOOL.

- I. When first I went to school, to school, to school,
 How happy was I !
 'Twas this way and that way (*walk round singly*),
 How happy was I !

- II. Next I went to service, to service, to service,
 How happy was I!
 'Twas this way and that way (*imitate scrubbing*),
 How happy was I.
- III. Next I had a sweetheart, a sweetheart, a sweetheart,
 Etc. (*walk round in couples*)
- IV. Next I got married, got married, got married,
 Etc. (*walk round arm in arm*)
- V. Next I had a baby, a baby, a baby,
 Etc. (*imitate nursing a baby*)
- VI. Next my husband died, he died, he died.
 How sorry was I! (*or Oh! how I did cry*),
 'Twas this way and that way (*put pinafore to eyes*),
 How sorry was I!
- VII. Next my baby died, she died, she died,
 Etc. (*imitate crying*)

There are several versions of this rhyme, in which a "naughty girl," a "good girl," a "teacher" or a "governess," a "nurse," and a "lady" are imitated.

THE LADY OF THE LAND.

Here comes the lady of the land,
 With sons and daughters in her hand.

The mother. Pray do you want a servant to-day?

The lady. What can she do?

The mother. She can brew, she can bake,
 She can make a wedding cake
 Fit for you or any lady in the land.

The lady. Pray, leave her.

The mother. I leave my daughter safe and sound,
 And in her pocket a thousand pound,
 And on her finger a golden ring,
 And in her bosom a silver pin.
 Don't let her ramble, don't let her trot,
 Don't let her carry a mustard pot.

The lady. I *will* let her ramble, I *will* let her trot,
 I *will* let her carry the mustard pot.

ENGLISH AND ROMAN SOLDIERS.

English. Will you have some bread and wine ?
 We are the English.
 Will you have some bread and wine ?
 We are the English soldiers.

Romans. We don't want your bread and wine,
 We are the Romans.
 We don't want your bread and wine,
 We are the Roman soldiers.

English. We will send our cats to scratch, *etc.*

Romans. What care we if your cats do scratch, *etc.*

English. We will send our dogs to bite, *etc.*

Romans. What care we if your dogs do bite, *etc.*

English. We will tell the magistrates, *etc.*

Romans. What care we for the magistrates, *etc.*

English. Are you ready for a fight ? *etc.*

Romans. Yes, we're ready for a fight, *etc.*

All. Now we are on the battlefield, *etc.*
 Shoot, Bang, Fire, Dead.

There are several versions of these lines, and in some the Roman soldiers ask the questions and the English make the replies. The tune is very vigorous and "catchy" one.

THE FARMER IN THE DALE.

- I. The farmer's in the dale, the farmer's in the dale,
Heigh ho with a merry ho, the farmer's in the dale.
- II. The farmer takes a wife, the farmer takes a wife,
Heigh ho with a merry ho, the farmer takes a wife.
- III. The wife takes a child, *etc.*
- IV. The child takes a nurse, *etc.*
- V. The nurse takes a doll, *etc.*

OR

- V. The nurse takes a dog, *etc.*
- VI. The dog takes a cat, *etc.*
- VII. The cat takes a mouse, *etc.*
- VIII. The mouse takes the cheese, *etc.*
- IX. The cheese stands alone, the cheese stands alone,
Heigh ho with a merry ho, the cheese stands alone.

ISABELLA.

Children. Isabella, Isabella, Isabella, farewell.

Isabella. Last night when I parted
I left him broken-hearted
On the mountain, on the mountain,
On the mountain, farewell.

Children. Then choose another, choose your lover,
Choose your lover, farewell. (*She chooses.*)

Children. Choose the bridesmaids, *etc.*, farewell.
Choose the parson, *etc.*, farewell.
Go to church, love, *etc.*, farewell.
Put the ring on, *etc.*, farewell.
Go home, love, *etc.*, farewell.
Have your dinner, love, *etc.*, farewell.

Isabella and lover. What have you for dinner, for dinner,
For dinner, farewell.

Children. Roast beef and plum pudding, plum pudding, plum
pudding,
Roast beef and plum pudding, plum pudding, fare-
well.

MOTHER, BUY ME A MILK CAN.

Children. Mother, buy me a milk can, milk can, milk can,
Mother, buy me a milk can, one, two, three.

Mother. Where's the money coming from, coming from, coming from?
Where's the money coming from ? one, two, three.

Children. Sell father's feather-bed, feather-bed, feather-bed,
Sell father's feather-bed, one, two, three.

Mother. Where will father sleep to, sleep to, sleep to ? *etc.*

Children. Sleep with the butler, butler, butler, *etc.*

Mother. Where will the butler sleep to ? *etc.*

Children. Sleep in the pigsty, *etc.*

Mother. Where will the pig sleep to ? *etc.*

Children. Sleep in the washing-tub, *etc.*

Mother. What shall I wash in ? *etc.*

Children. Wash in your thimble, *etc.*

Mother. What shall I sew with ? *etc.*

Children. Sew with the poker, *etc.*

Mother. What shall I poke with ? *etc.*

Children. Poke with your finger, *etc.*

Mother. Suppose I burn my finger, finger, finger.
Suppose I burn my finger, one, two, three.

Children. And a good job too ! (*Then follows a chase.*)

There are many versions of this "rhyme," some longer and some shorter, but the idea is the same in each case.

SHEEP, SHEEP, COME HOME.

- Master.* Sheep, sheep, come home.
Sheep Can't.
Master. Why not ?
Sheep. I'm afraid.
Master. What of ?
Sheep. Wolf.
Master. Wolf is gone to Devonshire,
 Won't be home for seven year,
 So, sheep, sheep, come home.
 (*The sheep try to go home ; but the wolf springs upon them.*)

JINNY, GET UP.

- Children.* Jinny, get up for your breakfast, breakfast, breakfast,
 Jinny, get up for your breakfast, this cold and frosty morning.
Jinny. I won't get up for my breakfast, breakfast, breakfast.
 I won't get up for my breakfast, this cold and frosty morning.
Children. Your father's coming up the hill, up the hill, up the hill,
 Your father's coming up the hill, this cold and frosty morning.
Jinny. I won't get up for my father, father, father.
 I won't get up for my father, this cold and frosty morning.
Children. Your mother's coming up the hill, *etc.*
Jinny. I won't get up for my mother, *etc.*
Children. Your brother's coming up the hill, *etc.*
Jinny. I won't get up for my brother, *etc.*
Children. Your sister's coming up the hill, *etc.*
Jinny. I won't get up for my sister, *etc.*
Children. Your sweetheart's coming up the hill, *etc.*
Jinny. I will get up for my sweetheart, sweetheart, sweetheart,
 I will get up for my sweetheart, this cold and frosty morning.

The *motif* of this rhyme is reminiscent of the well-known folk-song "The Prickly Bush," commonly called "The Prikely Bush" in Dorset.

JACK IS DEAD.

- I. Jack is dead and in his grave, in his grave, in his grave,
Jack is dead, and in his grave, in his grave.
- II. There came an old apple tree over his head, *etc.*
- III. The apples were ripe and beginning to fall, *etc.*
- IV. There came an old woman a-picking them up, *etc.*
- V. Jack got up and gave her a kick, *etc.*
- VI. Then the old woman went hippity-hop, *etc.*

These words are very similar to the Suffolk folk-song, "Oliver Cromwell lay buried and dead," supposed to have been composed at the Restoration.

RED LION.

Red lion, red lion,
Come out of your den,
Who ever you catches
Will be one of your men.

THE TOWER OF BARBARY.

This is a pretty little game. A boy represents the Prince of Barbary and has a number of soldiers. A girl, the heroine, stands a little way off; another girl walks round her slowly and sings :—

Oh ! will you surrender
The Tower of Barbary ?

The heroine sings in reply :

I will not surrender,
I will not surrender
The Tower of Barbary.

The other girl sings :

I'll go to the Prince,
I'll go to the Prince,
The Prince of Barbary.

The heroine replies :

Then go to the Prince,
Then go to the Prince,
The Prince of Barbary.

The other girl goes to the Prince and sings :

Good morning, young Prince,
Good morning, young Prince,
I've something to complain to thee.

The Prince asks of what she has to complain and the girl answers :

She will not surrender,
She will not surrender,
The Tower of Barbary.

The Prince says : "Take one of my soldiers ;" but the heroine refuses to surrender. One by one the soldiers go, until the Prince is soldierless ; but still the heroine refuses to surrender. At last the Prince himself goes, and the "Tower of Barbary" is surrendered immediately. The idea is the same as that running through the folk-song, "I will give you the keys of heaven."

ROSES IN AND ROSES OUT.

Roses in and roses out,
And roses in my garden,
I would not part with my sweetheart
For twopence ha'penny farden.
Take her by her lily-white hand
And lead her 'cross the water,
One, two, three, and a kiss for me,
Mrs. (name)'s daughter.

DOWN IN THE MEADOWS.

- I. Down in the meadows where the high grass grows,
See (*girl's name*) she grows like a rose,
She grows, she grows, she grows like a rose,
Come and tell your thoughts to me.
- II. (*Girl's name*) made a pudding, she made it nice and sweet,
Up jumps (*boy's name*) to have a slice to eat.
Taste, love, taste, and don't say "No."
To-morrow is your wedding-day and we shall have to go.
- III. All the boys in (*name of place*) shall have a happy life
Except (*boy's name*) and he shall have a wife.
A wife he shall have and a-courting he shall go
Along with (*girl's name*) because he loves her so.
- IV. He kisses her, he cuddles her, he sits her on his knee,
And says, dear (*girl's name*), will you marry me ?
The bells shall ring and we shall sing
Next Monday morn our wedding shall bring.

COUNTING-OUT PROCESSES.

- I. Ena, meena, mina, mo,
Catch a tinker by his toe.
If he screams, let him go,
Ena, meena, mina, mo.
O.U.T. spells "out,"
And out you must go
As fair as it can be.
- II. One, two, three, four, five, six, seven,
All good children go to heaven,
Penny on the water, twopence on the sea,
Threepence on the railway, and out goes *she*.
- III. Monkeys, monkeys, draw the beer,
How many monkeys have you here ?
Two, four, six, eight,
Mary at the cottage gate,
Eating cherries off the plate,
Two, four, six, eight,
Out you go.

- IV. Inky, pinky, wokey, wum,
 How d'ye like your teäties done ?
 Can't ye now jest gi'e I wone ?
 Teäties and cabbage and onions.

These four counting-out processes are typical of a very large number in existence. Judge Udal in his article before mentioned gives some extremely interesting examples, and I have many more in manuscript. But if all the Dorset children's rhymes were printed, a separate volume would almost be needed.

This paper is perhaps rather "light" for a Field Club's *Proceedings*. Some grave readers may dub it a "little childish." Exactly. It is wise sometimes even for Field Club members to become as little children ; on the whole it is such a great mistake to grow up.

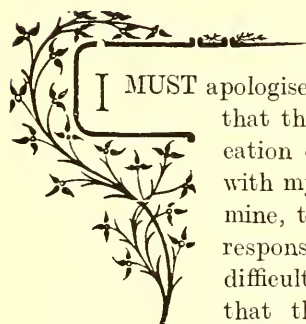




Phenological Report on First Appearances of Birds, Insects, &c., and First Flowering of Plants

IN DORSET FOR 1916.

By W. PARKINSON CURTIS, F.E.S.



I MUST apologise to my fellow members for the fact that this time I have hung up the publication of the Proceedings by my lateness with my report. The blame is not entirely mine, though I must father the greatest responsibility; but it would probably be difficult to satisfy all the delinquents that the blame had been fairly allocated. However, in fairness to the printers of our Proceedings, this time they must be absolved. War conditions have rendered it increasingly difficult for me either to observe on my own account or to collate other people's observations; and at present I feel that the business necessities are of such overwhelming importance that hobbies, even though they be scientific and even though they may have a permanent interest and a possible real value, must stand aside.

I fear that this is only too apparent from the records given, as some of the regular observers have not sent as full records as is customary with them.

The names (arranged alphabetically) of those who have sent returns are as follows. The initials prefixed in brackets to the names designate the responsibility for the record in the notes hereafter.

- (E.H.C.) E. Harker Curtis, Aysgarth, Poole.
 (W.P.C.) W. Parkinson Curtis, Hambledon Lodge, Parkstone.
 (S.E.V.F.) Rev. S. E. V. Filleul, All Saints' Rectory, Dorchester.
 (J.M.J.F.) Rev. Canon J. M. J. Fletcher, The Vicarage, Wimborne Minster.
 (F.H.H.) F. H. Haines, Esq., Winfrith.
 (E.F.L.) Rev. E. F. Linton, Edmondsham Rectory, Dorset (post town Salisbury).
 (N.M.R.) Nelson M. Richardson, Monte Video, near Weymouth.
 (E.S.R.) E. S. Rodd, Chardstock House, Dorset.
 (J.R.) The Rev. J. Ridley, Pulham Rectory, Dorchester.
 (E.E.W.) Miss Ellen E. Woodhouse, Chilmore, Ansty, Dorset.

Mr. G. R. Peek has retired, having left the county.

In addition to our regular observers, I have to thank the following gentlemen in varying degrees for taking the trouble to bear patiently my pertinacity and answering questions upon records painstakingly.

Mr. S. H. Wallis, of Chesterfield Place, Weymouth.

The Rev. F. L. Blathwayt (F.L.B.), of Melbury Osmund, a member of the British Ornithological Union and of our own club.

Members will be gratified to know that Mr. Blathwayt will contribute regularly in future.

Dr. F. G. Penrose (F.G.P.) of Hawkley, West Cliff Road, Bournemouth.

The Rev. A. Bertram Hutton (A.B.H.), of Loders.

CANIDAE.

(1) *Canis vulpes. The Fox.*

Apr. 21 Canford, Poole. I saw the remains of a mallard and subsequently found the vixen's earth about a quarter of a mile away; the Lodge Keeper has heard the dog fox barking at nights. It is a matter of some difficulty to locate the foxes on Canford Estate unless one stumbles upon helpful evidence.

Apr. 22 The same foxes made a meal off a female Burrow duck last night.

May 28 A fox cub a little larger than a tom cat growled at me because I "shued" him out of a bush on Badbury Rings. He crept away so quietly that he reminded me of the cat in "Alice in Wonderland." Although I watched him I never saw him go. The growl was very canine. (E.H.C.)

CERVIDAE.

(2) *Cervus elaphus. Red Deer.*

This animal was reported from the big heath between Purbeck Hills and the shores of Poole Harbour during winter 1915-16. I suggested to Dr. Penrose, who kindly investigated the report for me, that the deer seen were probably descendants of Japanese Deer escaped from Brownsea. He has been able to report that my surmise was correct. (W.P.C.)

(3) *Capreolus caprea. Roebuck.*

Feb. 27 Canford Estate. One roebuck that frequents this estate seems remarkably tame. He allowed me to approach quite closely before he strolled off.

Mar. 26 One seen with velvet on his horns. (E.H.C.)

THE APPEARANCES OF THE SCHEDULED BIRDS. SUMMER MIGRANTS.

Name of Bird. B.O.C. Handist, 2nd Edition.	Earliest previously recorded date for Dorset.	Edmond- sham, E. F. L.	Poole District, W. P. C. E. H. C.	Restwood, W. P. C. E. H. C.	Ansty, E. F. W.	Pulham, J. R.	Wey- mouth, N. M. R.	Chard, E. S. R.
(1) <i>Sylvia communis</i> The Whitethroat	Mar. 29 Apl. 12 May 6 N	..	Apl. 29 May 28 (8) Sept. 13 Apl. 1 Apl. 1 May 28 (8) Oct. 7 Apl. 9	May 20 (10)	..	..	..	..
(2) <i>Phylloscopus</i> <i>trochilus</i> The Willow Warbler (1)	Apl. 1 Apl. 26 h (2) h (2)	Apl. 21 (7)	..	..	..	..	..	..
(3) <i>Phylloscopus</i> <i>collybita</i> The Chiff Chaff	Mar. 13 Apl. 18 h (2) N	Apl. 2	..	..	..	Apl. 23	Apl. 9 Apl. 26	.. .. .. Apl. 1
(4) <i>Luscinia</i> <i>megarhynchos</i> The Common N	Apl. 4 Apl. 4 May 5 Aug. 8 Mar. 19 May 8 Oct. 30 Apl. 6	Apl. 23	..	..	..	Apl. 30	..	..
(5) <i>Emmeline</i> <i>cinerea</i> The Wheatear (1)	Mar. 8 Apl. 19 May 8 Oct. 30 N	..	..	May 20 (10) June 17	..	..	..	..
(6) <i>Muscicapa</i> <i>grisola</i> The Spotted Flycatcher	May 16 Sept. 24 h (3) Apl. 25 Apl. 20 h (3) h (3)	May 28	Oct. 8	..	..	Apl. 30	Apl. 30	..
(7) <i>Hirundo</i> <i>rustica</i> The Swallow	May 16 Sept. 24 h (3) Apl. 25 Apl. 20 h (3) h (3)	Apl. 20	Apl. 23	..	Apl. 12	..	..	..
(8) <i>Delichon</i> <i>urbica</i> House Martin	May 16 h (3) Mar. 23 ..	Sept. 25 May 1 ..	May 14 Oct. 8 Apl. 27	..	Oct. 11	..	..	..
(9) <i>Riparia</i> <i>riparia</i> Sand Martin	May 16 h (3) Mar. 23 ..	Oct. 8	*May 14 Aug. 27 (11) Apl. 29	..	..	..	..	..
(10) <i>Cuculus</i> <i>canorus</i> The Cuckoo	May 16 h (4) May (5) h (4)	..	*June 3 Aug. 2 (9) Apl. 21 Apl. 21	..	Apl. 20	Apl. 21	Apl. 27	..
(11) <i>Microtus</i> <i>apus</i> The Swift	Apl. 17 May 16 May 17 Sept. 14	Apl. 21	Aug. 6 (12) Apl. 21	..	..	Apl. 22	May 13	..
		..	..	..	..	..	Aug. 6	..

THE APPEARANCES OF THE SCHEDULED BIRDS. SUMMER MIGRANTS—(continued).

Name of Bird. B.O.U. Bandlist, 2nd Edition.	Earliest previously recorded date for Dorset.	Edmond- sham. E. F. L.	Poole District. W. P. C. E. H. C.	Berewood. W. P. C. E. H. C.	Austy. E. E. W.	Pulham. J. R.	Wey- mouth. N. M. R.	Chard. E. S. R.
(12) <i>Caprimulgus</i> <i>europeus</i> The Nightjar	Apl. 8 Apl. 21 July 11	May 23	Apl. 30 June 30	......	......	......	......	......
(13) <i>Crex crex</i> Cormorant	Oct. 6 Mar. 20 May 4	.. .. ..	.. .. ..	.. .. ..	May 12	......	......	......
(14) <i>Streptopelia turtur</i> A The Turtle Dove S(5) N D	.. 13 Apl. 28 Oct. 10	May 11	Apl. 30 .. July 23 (8)	May 20 (10) ..	.. .. ..	May 14....	......	......
WINTER MIGRANTS.								
(15) <i>Turdus pilaris</i> The Fieldfare	Apl. 21 Aug. 26	.. ..	Mar. 18..	....	....	....	....	....
(16) <i>Turdus iliacus</i> The Redwing	Apl. 17 Nov. 22	.. ..	Mar. 5..	....	....	....	....	....
RESIDENTS.								
(17) <i>Turdus merula</i> The Blackbird	Jan. 1 Jan. 16	Jan. 22	.. 8 Jan. 17	.. ..	.. Feb. 5	Apl. 8 ..	.. Feb. 5	....
(18) <i>Alauda arvensis</i> The Skylark	Jan. 1 Apl. 5	....	....	....	....	....	....	....
(19) <i>Corvus frugilegus</i> The Rook	Jan. 1	Feb. 17	..	..	..	Apl. 8 (6)	..	..

A—arrival. S—song, and where no song, call note. N—nest. D—departure. H—has wintered. *—that the date of arrival, song, or nesting is earlier, and the date of departure later than any previous record in Dorset.

The Stations are arranged as near as may be from East to West.

(1) No distinction is made between the races. (2) See Vol. xxxvi., p. 125. (3) See Vol. xxxv., p. 190. (4) See Vol. xxxv., p. 185. (5) See Vol. xxxvi., p. 169, note 22. (6) Young birds. (7) Full song. (8) At Badbury Rings. (9) At Swanage. (10) The only time I was at Berewood in the spring (W. P. C.) (11) Obviously not the last seen, but, oddly enough, the last recorded (W. P. C.) (12) At Mupe or Mewps Bay. (13) At Arish Mell.

CORVIDAE.

(1) *Corvus corax. The Raven.*

- Apr. 21 A pair seen flying high in circles over Canford Bottom; finally they proceeded north at a great height. (E.H.C.).
- Apr. 25 Mr. S. H. Wallis wrote—"It is reported that the young ravens near Ringstead have flown already."

(2) *Pica pica The Magpie.*

- Mar. 6 One observed in Canford Bottom. (E.H.C.)
- Aug. 1 A single bird seen in Worbarrow Cove. (W.P.C.)

(3) *Garrulus glandarius. The Jay.*

- Mar. 6 On the Canford Estate in the winter the Jay is very frequently met with in numbers in excess of the usual residents. On this day we saw an abnormally large number, and many individuals appeared to be lighter in colour than *Garrulus glandarius rufitergum*—The British Jay. W. and I therefore concluded the numbers were swollen by Continental Jays. Snow was still on the ground in sheltered places, and the north wind was very keen, and on March 7-8 there was a further heavy fall.
- Apr. 9 Jays on the Canford Estate are reduced to normal numbers.
- Oct. 21 An increase in the number of birds noted at Canford by E.H.C., but he could not determine whether they were *Garrulus glandarius* or *Garrulus glandarius rufitergum*. (E.H.C. and W.P.C.)

FRINGILLIDAE.

(4) *Chloris chloris*. *The Greenfinch*.

Found at Loders in *Arbor Vitae* 19 May, 1915. Greenfinches' nest with six eggs of pure white without a spot on any egg. Nest made of rootlets and moss-lined inside with very fine-grass. Eggs very like the wryneck's, but slightly smaller and more pointed at one end. (A.B.H.)

(5) *Coccothraustes coccothraustes* *The Hawfinch*.

One at Melbury Osmund, December 6. (F.L.B.)

(6) *Carduelis carduelis britannica*. *The British Goldfinch*.

- Jan. 17 At Oakdale, Longfleet, Poole, six in a company. (E.H.C.)
 Aprl. 30 A few evidently residents near Badbury Rings.
 May 20 Observed nesting in the border of Bere Wood. (W.P.C.)
 May 28 A pair observed at Badbury Rings. (E.H.C.)
 Aug. 12-13 A flock of 20 to 30 in the Quarries, Swanage. (W.P.C. and E.H.C.)
 Oct. 25 At least thirty Goldfinches on lawn at Pulham. (J.R.)

(7) *Fringilla coelebs*. *The Chaffinch*.

- Feb. 19 At Kniton, near Canford, Dorset. A large flock of 500 to 600 finches, nearly all *chaffinches*, about 10 per cent. *greenfinches* busy feeding amongst manure spread in a field. There were one or two *Emberiza citrinella*. Doubtless they were searching for undigested seeds and

vermin, and the amount of weeds and pests destroyed by 500 hungry little birds is incalculable.

- June 3 Two nests with full clutches on this date at Canford.
- June 30 A family observed at Haymoor Bottom, Poole, feeding on *Tortrix viridana*. (E.H.C.)
- July 15 Saw a *Fringilla coelebs* hunt a *Camptogramma bilineata* out of the hedge at Broadstone and capture it. (W.P.C.)

(8) *Fringilla montifringilla*—*The Brambling*.

- Jan 23 Six Bramblings were seen on the north side of Berewood.

(9) *Acanthis linaria cabaret*. *The Lesser Redpoll*.

- Jan. 1 During a gale of wind from W. and showers of rain, on Broadstone Golf Links, about 12 seen feeding in the birch trees against the fourth tee. They were very tame.
- Mar. 25 About 12 seen at the same place as on Jan. 1.
- Oct. 21 At Cockwood, Canford, E.H.C. noted a flock of 40 or so flying round overhead. He sat down to watch. The flock wheeled round for a time calling "twee twee" to one another as they flew. As they approached the tree where E.H.C. was seated he noticed in the top of the birch a few birds who called "haree haree" like a canary bird. The whole flock literally dropped on to the upper branches of the birch, where they really became very inconspicuous, so much so that had he looked casually at the tree he would not have thought there were more than a dozen or so there, whereas there were four times that number. When a stray Redpoll flew over, and several did, the call birds

gave the canary note and the strays joined the flock, which was seemingly no more conspicuous to the stray birds looking from above than they were to E.H.C. looking from below. The tree was in full seed, and as the redpolls moved showers of seed fell like snow. The birds are most tit-like in their action in hanging from slender twigs. The birds seemed to enjoy the afternoon sunlight as every once now and again the flock would take wing and circle round, returning however to the tree guided by the canary call of those remaining. They are linnet-like in flight, but quicker and more sprightly. E.H.C. concluded they had come South from N.E. (E.H.C. and W.P.C.)

(10) *Pyrrhula pyrrhula pileata*. *British Bullfinch*.

- May 20 Observed nesting in Bere Wood. (W.P.C.)
 May 28 One male and an unfinished nest at Badbury.
 (E.H.C.)

(11) *Emberiza calandra*. *The Corn-Bunting*.

- May 20 Seen at Berewood. (W.P.C.)
 May 28 A male in full song at Longfleet Lodge. (E.H.C.)

(12) *Emberiza citrinella*. *The Yellow Bunting*.

- Apr. 30 An unusually large number at Badbury Rings.
 (W.P.C. and E.H.C.)
 May 20 Seen at Bere Wood. (W.P.C.)
 May 28 Five to six pairs on Badbury Rings.
 (E.H.C.)

(13) *Emberiza cirius*. *The Cirl Bunting*.

- May 20 A pair seen on the outskirts of Bere Wood.
 (W.P.C.)

- May 28 One seen at Badbury Rings. (E.H.C.)
 Aug. 20 Close to Anvil Point we watched a pair feeding young out of the nest. The food brought on several occasions was the Wainscot Moth, *Leucania pallens*; but we could not observe all the food brought owing to the restriction on the use of field glasses on the coast. (W.P.C. and E.H.C.)
 Nov. 19 One at Weymouth. (F.L.B.)

ALAUDIDAE.

(14) *Alauda arvensis. The Skylark.*

- Jan. 17 One singing close to Poole.
 Jan. 24 Four or five close to Poole.
 Jan. 31 Two or three close to Poole. (E.H.C.)
 May 20 Singing very vigorously on the outskirts of Berewood. (W.P.C.)

(15) *Lullula arborea. The Woodlark.*

- June 4 In the neighbourhood of Poole W.P.C. saw this bird in a small wood. Observed it gathering insects in a tree and depositing them on the flat of a bough near where the bough joined the main trunk. (This habit is a known peculiarity of this bird, I am informed by another observer. Ed.) He is confident that he is right as to his identification, as since that date he has gathered additional confirmatory evidence. (W.P.C.)

MOTACILLIDAE.

(16) *Motacilla lugubris. The Pied Wagtail.*

- May 20 Seen with a beakful of insects (order not determined) evidently feeding young. Bere Wood. (W.P.C.)

Downward migration.

- Oct. 14 Seven or eight at Broadstone flying in a Southerly direction. (E.H.C.)
 Oct. 15 Several at Sandbanks evidently about to leave. (W.P.C.)

(17) *Motacilla boarula. The Grey Wagtail.*

- Aug. 1 One seen at Arish Mell. (W.P.C.)
 Nov. 8 At Mr. Blanchard's house on the outskirts of Poole, E.H.C. went out at Mr. Blanchard's request to investigate the peculiar behaviour of one of these birds which had taken to fluttering against a particular pane of a particular leaded light in a staircase. A detailed description without a diagram, which there is no time to prepare, would be useless. The behaviour consisted in repeatedly fluttering against the particular pane. E.H.C. saw the bird, a fine male, go through the performance nine times in ten minutes. The window was clear glass. Dr. Penrose thinks the bird could see its own reflection. This is confirmed by the report to W.P.C. by Mr. A. E. Francis, of Bournemouth, of a similar occurrence he had observed at his own house by the same species on another occasion, when Mr. Francis thought the bird "had fallen in love with its own reflection." (W.P.C. and E.H.C.)
 Dec. 6 Observed at Melbury Osmond. (F.L.B.)

(18) *Anthus trivialis. The Tree Pipit.**Arrival.*

- May 7 One seen Canford.
 May 16 One seen Canford Bottom.
 May 21 One seen at Canford and heard singing sweetly ; but a careful search failed to locate the nest. (E.H.C.)

Nesting.

- June 3 A pair seen at Corfe Mullen. (W.P.C.)
- June 25 At Canford Bottom, in company with Dr. Penrose, E.H.C. noted a female fly out of the grass with something in her bill which he thought was an egg shell. We all three spread out and watched the bird back a few minutes later. She rose again with what W.P.C. pronounced to be a dead nestling. She dropped this in the long grass about 15 yards from the nest. W.P.C. found it and that it was a nestling not long hatched, and with a very distended crop. We then examined the nest and found it contained one egg of the red closely sanded type, very like a reddish meadow pipit's egg, and one very weak nestling, which Dr. Penrose considered to be *in extremis*. It died the next day and was removed by the parent bird, who incubated the remaining egg for two more days and then deserted.

No satisfactory explanation of this little tragedy occurred to any of us, except the possibility that some one had sown "poisoned" seed somewhere locally, but we could not find that this had been done. Moreover, the bird's feeding ground was not on cultivated land, and it would be unlikely to feed tiny nestlings on seeds, as it is an entomophagous bird. (W.P.C. and E.H.C.)

Departure.

- July 22 These birds were still singing at Canford.
- Aug. 27 One heard singing in Canford Bottom. (E.H.C.)

(19) *Anthus petrosus. The Rock Pipit.*

- Aug. 20 Good number present on the Swanage coast line. (W.P.C. and E.H.C.)

CERTHIIDAE.

(20) *Certhia familiaris britannica* *The British Tree-Creeper.*

May 14 A pair seen at Canford Bottom.

May 28 At Badbury Rings observed building in a small hole in a dead Scotch fir branch. It had a piece of wood slightly larger than its tail, and about as big as it could hold. (E.H.C.)

SITTIDAE.

(21) *Sitta caesia.* *The Nuthatch.*

Apr. 9 Busy stopping a woodpecker's nesting hole with mud at Canford. (E.H.C.)

Dec. 6 Observed at Melbury Osmond. (F.L.B.)

PARIDAE *Tits.*

Jan. 16 A mixed and roving band of Tits, of 2 *Parus major* (Great Tit), 10 or 12 *Parus caeruleus* (Blue Tit), and about 12 *Parus ater britannicus*, were observed in Merley Park, near Wimborne, busily searching amongst the fallen leaves, grass, and beech mast under the beech trees. The food was not identified, but must have been small, as no bird was seen to rise with food.

Feb. 27 A large roving band of Tits in company with a few Golden Crested Wrens seen in the woods at the edge of Canford Bottom.

Oct. 22 By this time the roving bands of Tits and Tree-creepers had again congregated.

Oct. 29 At Canford a large company was seen. *Aegithalus caudatus rosea* (60), *Parus ater britannicus* (50), *Parus major newtoni* (a few), *Parus caeruleus obscurus* (2), *Certhia familiaris britannica* (2), *Regulus cristatus* (30).

(22) *Parus major newtoni*. *British Great Tit*.

June 3 A nest of these birds was ready to fly on this date (E.H.C.).

(23) *Parus ater britannicus*. *British Coal Titmouse*.

Apr. 30 At Canford, sitting in an artificial nesting box.

May 21 E.H.C. decided to try his luck with this pair, which had hatched out. He started observing at 1.15. His Notes are as follows:—"One bird arrived with a green larva; 1.22, female; 1.23, male; 1.25, female; and 1.30, female fed young. The male started singing "tweet chew, tweet chew, tweet chew, tweet," then "tweet tweet" several times with intervals; then "twee tweety" three times repeated. Then "weet weet weet tee," then two low notes and one long one high. Then he made a direct change into the reverse, and gave one long high note and two short ones on the same lower note. At 1.37 the male, having gone through this variation in notes several times, fell silent, and at 1.40 arrived with a green larva; 1.45, male; 1.48, female; 1.50, male fed young and then indulged in a little song "cheer (1) chee (6)" and then "cheerr." All of which sounded very much like the way they scold intruders; but it was not so indignant, and, so far as I could see, there was no cause for scolding; 1.52, female with green larva; 1.57, female again, male singing close at hand; 2, another bird fed; 2.7, I put a few oak leaves in the entrance hole; 2.8, male came and tried to enter the nest; but he fussed round and went from the nesting hole to the top of the box and back two or three times. The pair are both remarkably

active little birds ; but the male kept his green larva and came back with it at 2.11 and cleared out the leaves and fed the young. 2.17, female fed ; 2.18, male ; 2.20, I crossed two twigs in the entrance hole, hoping thereby to secure a better opportunity for exposing plates of these active birds ; but at 2.27 male arrived with a green larva and found that the twigs were too strong for him to move ; so I ultimately went out and took them away. Thereafter I heard neither bird till 2.43, when the male returned with his green larva, went inside the nesting box, and then popped his head out, afterwards returning inside to feed the young.

2.44, female, 2.45, male, 2.45-3.0, female came all in such rapid succession that I put up some more oak leaves in the entrance hole.

3, female ; 3.1, male arrived ; at 3.5 I put up another oak leaf. At 3.6 the male removed it, and fed the young. At 3.14 I put up further oak leaves, at 3.15 male came with an insect like the devil's coach horse. Between 3.15 and 3.20 the birds fed three times and again at 3.22. At 3.24 female cleaned nest, and at 3.26, 3.27, 3.28, and 3.35 the parents again fed the young. After which I left."

May 28 This boxful was as big as their parents, and nearly ready to leave the nest.

May 28 A pair were observed feeding young at Badbury Rings. (E.H.C.)

(24) *Parus caeruleus obscurus.* *The British Blue Titmouse.*

May 21 A pair at Canford were feeding young in a hole in an oak tree ; they came to nest with food about every minute. (W.P.C. and E.H.C.).

(25) *Aegithalus caudatus roseus*. *The British Long-Tailed Titmouse*.

- Apr. 8 Nest finished.
 Apr. 9 Another nest of the same species also finished,
 Canford. (E.H.C.)
 May 20 At Berewood. Three birds seen feeding to one
 nest. No mistake, all three seen together,
 sexes not determined. The nest was high up
 in an oak fork. (W.P.C.)

LANIIDAE.

(26) *Lanius collurio*. *The Red-Backed Shrike*.

Arrivals.

- May 20 A pair seen at Bere Wood. (W.P.C.)
 May 21 One seen in Canford Bottom (W.P.C.). This
 bird evidently then had a mate or procured one
 later, because during the early part of June it
 was repeatedly seen singly or in company with
 its mate, though, oddly enough, E.H.C. has not
 made any notes about it till 24th June. This
 is the more extraordinary, as we had remarked
 specifically on the presence of a pair in or about
 this locality from time to time since the year
 1891, when the then keeper at Canford Bottom
 described to me the way he had seen the male
 strike and kill an adult *Anthus pratensis*, the
 Meadow Pipit.

Nesting.

- June 24 We determined to find the nest of this pair, and
 after watching the birds for a long time, ranging
 over a good-sized area, we decided that they
 were nesting in a wide hedge. W.P.C. found
 a nest which E.H.C., from previous experience,
 pronounced to be *Lanius collurio*. It was less

than four feet from the ground. About eight feet away was a nest about three feet from the ground containing five unfledged dead nestlings, somewhat decomposed. We determined them to be young *collurio*, which identification Dr. Penrose confirmed, as also did he the cause of death we surmised, namely, the excessively heavy hail of a fortnight previous, when the hail stones were of great size and the hail very violent. The heads of the nestlings bore marks very like bruises, suggestive of this fate. On 25th June this nest contained one egg of the greenish type. Two eggs were subsequently laid and the nest was destroyed, we believe by Jays, as the eggs were sucked and broken and left in pieces in the nest, which was deserted on the 9th July. (W.P.C. and E.H.C.)

SYLVIIDAE.

(27) *Sylvia communis*. *The Whitethroat*.

Arrival.

Apr. 29 Between Poole and Badbury Rings, *via* Sturminster and Wimborne, about 50 seen. (W.P.C.)

Apr. 30 10 to 12 seen at Canford.
There were many Whitethroats at Badbury Rings, far more than the resident number. (E.H.C.)

Nesting.

May 20 Six pairs seen. Two males in full song, Bere Wood. (W.P.C.)

May 28 About 20 pairs seen at Badbury Rings and two nests, one with five eggs of the cloudy green type, in a grass nest in a low bramble, and the other with five eggs of the white type

with brown muddy markings and a zone of spots at the large end. The first nest was entirely of grass, and the second was lined with horsehair. Many males were in full song.

June 17 Whitethroats were still feeding young at Bere Wood on this date.

Departure.

July 20 Many at Badbury Rings. (E.H.C.)

July 30 Four or five seen at Arish Mell. (W.P.C.)

Aug. 12-13 Five or six seen at Swanage on the Undercliff. (E.H.C.)

Sep. 13 One seen at Oakdale. (W.P.C.)

(28) *Sylvia curruca. The Lesser Whitethroat.*

Arrival.

Apr. 29 Between Poole and Badbury Rings via Sturminster and Wimborne, 20 observed. (W.P.C.)

May 20 At Bere Wood. One pair seen. Male seen singing and both birds examined at a distance of about two yards for five minutes. (W.P.C.)

May 28 One heard singing.

Departure.

July 20 Many at Badbury Rings.

(29) *Sylvia simplex. The Garden Warbler.*

Arrival.

Apr. 30 One heard singing at Canford.

May 18 One heard singing at Canford Bottom. (E.H.C.)

May 20 One pair seen at Bere Wood. The male singing well.

Departure.

July 30 One seen at Arish Mell. (W.P.C.)

Aug. 12-13 Five or six seen on the Undercliff at Swanage.
(W.P.C. and E.H.C.)

(30) *Sylvia atricapilla* *The Blackcap.*

May 20 At Bere Wood, one pair seen. Male singing incessantly. (W.P.C.)

June 3 At Canford a male was singing well, and we found a number of "cocks' nests," but not the actual nest. (W.P.C. and E.H.C.)

(31) *Melizophilus undatus dartfordiensis*. *The Dartford Warbler.*

Jan. 9 One heard on Broadstone Golf Links while in company with W.P.C. E.H.C. considers this bird wanders a great deal more than is supposed. He had never observed it on Broadstone Golf Links before, but by reason of its retiring habits it is very possibly not so frequently recorded as it might be, but subsequent visits afforded no evidence that these Links are a breeding place for this species.

Apr. 23 Near Poole I heard "tchee-tchee-tchee" from the depths of a furze bush, and presently I had the pleasure of seeing the male sun himself on the top of a furze bush for a few moments, and then he slipped away in the gorse. I saw him again once or twice hopping on to a high sprig and poising himself with his long tail over its back. (E.H.C.)

May 13 Spent an hour trying to observe the Dartford Warblers, and saw male first and afterwards female in same furze bush; but although W.P.C. watched male into a fir tree to search for food and E.H.C. watched female, neither bird seemed to be feeding young.

- May 15 One hour spent by E.H.C. on this pair resulted in his seeing the female once.
- July 22 Two males and one female seen at Canford Bottom. (W.P.C. and E.H.C.)

(32) *Acrocephalus schoenobaenus*. *The Sedge Warbler*.

- July 23 Two seen at Badbury Rings. (E.H.C.)

(33) *Phylloscopus trochilus*. *The Willow Warbler*.

Arrival.

- Apr. 1 Two seen and heard near Canford, Dorset, and two seen and watched at Arrowsmith, Canford Estate, one of which was observed to make several unsuccessful attempts to catch *Brephos parthenias* that were flying at willow bloom.
- Apr. 21 One seen at Canford.
- Apr. 25-26 Small increase in numbers at Canford.
- Apr. 30 Abundant everywhere at Canford. And far more than the usual resident numbers at Badbury.
- May 20 Exceedingly abundant and singing vigorously at Berewood. (W.P.C.)

Nesting.

- May 28 At Badbury Rings ten to a dozen males singing and a nest with five eggs. (E.H.C.)
- June 3 A number of pairs at Canford were feeding young in the nest.
- June 17 A single male was singing in Berewood on this date.

Departure.

- July 17 A good number working in a South-Westerly direction through Haymoor Bottom, Poole.

- July 22 15 to 20 moving through tallows to look for food at Haymoor Bottom.
- July 23 Many at Badbury Rings. (E.H.C.)
- July 30 A few seen at Arish Mell.
- Aug. 1 At Arish Mell I had a very close view of *Phylloscopus trochilus* and saw it catch a *Tortrix* at rest on the underside of the leaf of an ash tree. I was only about three feet from it. It was very tame.
- Aug. 6 Several at Arish Mell. (W.P.C.)
- Aug. 12-13 Many on the Undercliff, Swanage.
- Aug. 20 Numbers still on the Undercliff at Swanage. (W.P.C. and E.H.C.)
- Sep. 3 Two seen at Canford Bottom. (W.P.C.)
- Sep. 22. One seen at Canford Bottom. (W.P.C.)
- Oct. 7 One seen at Canford Bottom. (W.P.C.)

(34) *Phylloscopus sibilatrix*. *The Wood Warbler*.

1916 July 22. The Rev. E. F. Linton wrote me for information as to the song of a bird he had heard round Edmondsham in several places during the early summer. His description of the song was so accurate that I have no doubt as to the bird being *Phylloscopus sibilatrix*.

Arrival.

May 20 A single male seen at Berewood. (W.P.C.)

Nesting.

June 3 At Canford a male was singing well, and we afterwards watched the female to her nest. The nest was the usual little domed structure of moss and leaves and was placed in the bramble, under a spruce fir. There was no run to the nest, and it was barely visible without moving the brambles that were creeping over the ground.

The lining of the nest was fine grass and no feathers, and there were five or six young one (it was difficult to count without touching the nest) in fluffy down about the colour of mole skin. When the herbage was moved they opened their beaks, shewing crimson interiors to their mouths. The food brought (by the female only while we were at the nest) was green lepidopterous larvæ. The situation of the nest was exceedingly dark, being in the deep shadow of the spruce tree, and so placed that the female could slip down a trailing branch into a bramble and so into the nest almost entirely unobserved. (W.P.C. and E.H.C.)

(35) *Phylloscopus collybita*. *The Chiff Chaff*.

Arrival.

- Apr. 9 At Dunyeats, Canford Estate, after a night of light N.W. wind almost still.
 Apr. 30 The customary pair at the Dew Pond, Badbury Rings. (E.H.C.)
 May 20 Very much in evidence at Berewood, but quite silent*. (W.P.C.).

Nesting.

- May 28 A male singing at Badbury Rings. The nest was a very large one indeed, being the largest I have ever seen.
 June 17 A single bird was singing in Berewood at this date.

Departure.

- July 20 Many at Badbury Rings and still singing. (E.H.C.)

* This may be doubtful, remembering W.P.C.'s deafness.—EDITOR OF PHEN. NOTES.

- July 30 A few seen at Arish Mell. (W.P.C.)
 Aug. 12-13 Many on the Undercliff, Swanage. (W.P.C.
 and E.H.C.)
 Aug. 20 Numbers on the Undercliff, Swanage. (W.P.C.
 and E.H.C.)

TURDIDAE.

(36) *Turdus viscivorus*. *The Missel Thrush*.

- Apr. 23 Singing in Berewood.
 May 7 Sitting four eggs at Canford Bottom on this date.
 May 13 Two of the eggs had hatched. W.P.C. caught a fully developed young bird out of another nest.
 May 14 The pair had now hatched four, and were busy all day fetching worms from a damp field about a quarter of a mile from the nest. This nest was burnt out by a big heath fire on the 22nd and 23rd May. (W.P.C.)
 May 17 Observed *Turdus viscivorus* (female) chase *Accipiter nisus* (male) and buffet him with her wings at Upton near Poole. (E.H.C.)
 May 28 One pair observed in the tall trees of Badbury Rings. (E.H.C.)

(37) *Turdus musicus clarkii*. *The British Song Thrush*.

- Jan. 5 Singing at Pulham. (J.R.)
 Jan. 9 Singing on Broadstone Golf Links.
 June 23 Singing in Berewood.
 Feb. 27 About 500 seen in the Parish of Longfleet busily feeding wherever the grass showed through the melting snow.
 Mar. 26 The migrating thrushes have departed, and the numbers are now as usual.
 Apr. 9 Nest, hen sitting.

June 3 At Canford we found a curious clutch of eggs, which we (mistakenly W.P.C. thinks) left alone. Three were entirely unspotted, the remaining two had each one large blotch; as if the entire pigment matter secreted by the bird had been deposited in two separate excretions. On one egg the blotch tended to shew the ground colour through, but in the other it was a solid blotch about the size and shape of the full fed larva of *Pieris rapæ*, the Garden White Butterfly.

Nov. 13 Singing at Parkstone. (W.P.C. and E.H.C.)

(38) *Turdus iliacus*. *The Redwing*.

Feb. 27 About 50 seen in Longfleet in one company, feeding wherever grass shewed through the melting snow.

Mar. 5 A good many Redwings still to be seen around Poole. (E.H.C.)

(39) *Turdus pilaris*. *The Fieldfare*.

Jan. 8 On Broadstone Golf Links, four or five Fieldfares against the Sixth green. (W.P.C.)

Mar. 5 A few still in the neighbourhood of Poole.

Mar. 18 Two seen on Broadstone Golf Links on a spring-like day.

(40) *Turdus merula*. *The Blackbird*.

Apr. 8 Unfinished nest seen at Poole. (E.H.C.)

(41) *Luscinia megarhyncha*. *The Common Nightingale*.

May 20 At Berewood in full song, except three pairs, which, judging by the anxiety of both parents, seemed to have young. (W.P.C.)

- May 28 A pair at Badbury Rings, the male in full song. The female was not sitting, as E.H.C. saw them both together. He could not consequently find the nest; and when he used the call note the male came close to him and sang lustily. (E.H.C.)
- June 17 Young nightingales were fledged and going about with their parents at Berewood. (W.P.C.)

(42) *Saxicola rubicola*. *The Stonechat*.

- Jan. 9 On Broadstone Golf Links, a perfect spring-like day of continual sunshine, heard singing with great joy.
- Apr. 15 Near Canford, W.P.C. and E.H.C. saw a remarkable male of this species which exhibited an unusual amount of white on his wings, particularly when in flight, looking like *Saxicola torquata*.
- May 13 At Canford Bottom, nest with four young.
- May 14 These young birds were beginning to shew signs of feathering.
- May 15 E.H.C. observed another pair for one and a half hours, catching two to three a minute of *Eupithecia nanata* and *Crambus (sylvellus or pascuellus)*.
- May 16 5.45 a.m. Cycled out to Canford Bottom to photograph these small birds. E.H.C. got settled to work at 7.35.
 7.45—female came to the nest.
 7.50—male fed young with flies.
 7.55—female fed young.
 7.56—male fed young.
 8.0—male and female both came to the nest together and left suddenly.
 8.2—Blackbirds, misselthrushes, and small birds were making a great noise, mobbing some bird in bushes or trees behind the tent.

8.5—female came to nest, but did not stay, as the blackbirds were still scolding.

8.10—the commotion having subsided, male fed young.

8.25—female fed young.

8.27—male fed young.

8.32—male fed young.

8.40—female fed young.

The young make a noise when fed precisely like that made by young robins.

The parents are very active little birds, and anything less than an instantaneous exposure is useless. They are charming little birds and are never still; if no other part moves, the tail nearly always does so. It is raised and closed, and thereafter depressed and spread fanwise, the two movements being coincident. The food they brought was all small insects, and as far as I could see only once a small micro of the species that haunts furze bushes (? *Catoptria ulicetana*. W.P.C.) (E.H.C.)

May 18 E.H.C. again visited the nest and started observations at 7.45, but was just in time for the departure of the young birds from the nest. They made their way through the tops of the heather, but did not go far from the nest up to the time E.H.C. had to leave. (E.H.C.)

(43) *Oenanthe oenanthe*. *The Wheatear*.

Arrival.

Mar. 22 One seen between Poole and Hamworthy and a fine male seen in the green field close to Peveril Point, Swanage. (F.G.P.)

May 7 A pair at Canford Bottom (the pair did not stop there to breed). (W.P.C.)

Departure.

- Aug. 1. A family seen at Arish Mell. (W.P.C.)
 Aug. 6 Several on Bovington Heath, Wareham. (E.H.C.)
 One at Arish Mell. (W.P.C.)
 Aug. 12-13 Ten or twelve in the Lighthouse Field, Swanage.
 (W.P.C. and E.H.C.)
 Aug. 20 There were a good number in the Lighthouse
 Field at Anvil Point and on Peveril Down,
 Swanage, representing a further downward
 movement.
 Oct. 8 One female seen at Canford Bottom, perched
 on an arbutus tree. (W.P.C.)

ACCENTORIDAE.

- (44) *Accentor modularis.* *The Hedge Sparrow.*

- July 7 One seen near Fleets with a wainscot moth
 (? species) in its beak. (W.P.C.)

CINCLIDAE.

- (45) *Cinclus cinclus britannicus.* *The British Dipper.*

- Nov. 28 Two seen at Abbotsbury. (F.L.B.)

HIRUNDINIDAE.

- (46) *Hirundo rustica.* *The Swallow.*

Arrival.

- Apr. 11 About a score seen at Charmouth, although
 none were seen at Edmondsham till April 20.
 (E.F.L.)
 Apr. 23 Three not far from the main road from Poole
 to Wareham.
 Apr. 28 About forty or fifty in one company and about
 twenty in another, at Poole.
 Apr. 30 Twenty to thirty seen at Canford. (E.H.C.)
 Apr. 30 Several flying about at Badbury. (W.P.C.)

Nesting.

- May 14 Seen gathering mud for nests at Oakdale,
Poole. (E.H.C.)
May 28 Several flying about at Badbury. (E.H.C.)

Departure.

- July 30 A good many seen at Arish Mell. (W.P.C.)
Aug. 27 About a dozen still at Canford Bottom, Poole.
(W.P.C. and E.H.C.)
Sep. 26 At 5 a.m. at Poole, 200 flying E.S.E. (W.P.C.)
Oct. 7 Three seen at Oakdale. (W.P.C. and E.H.C.)
Oct. 8 An evident increase in number in Poole district,
owing to arrivals from further North. (W.P.C.)

(47) *Delichon urbica.* *Martin.*

Arrival.

- Apr. 27 At Poole one seen.
Apr. 28 At Poole small holdings a few seen (increase).

Nesting.

- May 14 Seen gathering mud for nests at Oakdale.
(E.H.C.)
May 15 Many. (E.H.C.)

Departure.

- July 30 A good many seen at Arish Mell. (W.P.C.)
July 31 W.P.C. notes.
" At Arish Mell I saw a number of these birds
walking about among the grass catching insects.
I thought I saw one pounce on *Crambus*
tristellus, but was not sure of the species. I
think the bulk of the insects were flies attracted
by sheep's droppings. The birds had great
difficulty in walking on the grass. They labor-
iously walked until the prey was observed and

then rose a few inches from the ground, flew to the prey and pounced upon it, stooping abruptly; then the whole performance was repeated, their movements being very dainty, and even the difficulty in walking did not convey any suspicion of clumsiness."

Aug. 12-13 About fifty on the wing in Durlston Bay.

Aug. 20 About thirty on the wing in Durlston Bay.

Aug. 27 A fair number still about Canford Bottom, and several pairs still feeding young at Poole. (W.P.C. and E.H.C.)

(48) *Riparia riparia*. *Sand Martin*.

Arrivals.

Apr. 29 Numbers near Lytchett Beacon.

Apr. 30 Between twenty and thirty on the telephone wires near the river at Wimborne.

Nesting.

June 3 This bird was feeding young at Corfe Mullen.

Departure.

Aug. 2 One or two flying along the cliff face at Durlston Bay, Swanage. (W.P.C.)

PICIDAE.

(49) *Dryobates major anglicus*. *The Great Spotted Woodpecker*.

Jan. 22 One seen on Broadstone Golf Links.

Mar. 26 On the Canford Estate *Dryobates major* and *Picus viridis* have both been busy since last breeding season hollowing out new holes in dead birch trees. An old stump in which *Picus viridis* nested last season is riddled with five or six new holes. E.H.C. hazards the opinion that these holes may be used as roosts.

- Apr. 30 Heard on the Canford Estate.
 May 21 At Canford we watched a male drumming with his beak on the dead limb of an oak tree ; he did not look for food after tapping, neither could we see him put his tongue out, or open his beak in a manner to suggest that his lightning tongue was put out ; hence we think this drumming was done out of sheer light-heartedness, or as a signal to his mate. (W.P.C. and E.H.C.)

Dec. 12, 30, and 31 Seen at Melbury Osmund. (F.L.B.)

(50) *Dryobates minor*. *Lesser Spotted Woodpecker*.

- March Observed several times by Head Keeper Wren at Break Hill, Canford Estate.

(51) *Picus viridis*. *Green Woodpecker*.

- Jan. 16 Heard to give his courting call at Merley Park, near Wimborne.
 Jan. 22 Calling loudly on Broadstone Golf Links.
 Apr. 30 On the Canford Estate seen to fly off tree where one of the nests was last year.
 May 7 One bird observed in excavating old nesting hole filled with the comb of the honey bee. (An examination of the comb, &c., made W.P.C. conclude that this nest had fallen a prey to the Isle of Wight disease.)
 May 28 Observed at Badbury Rings. (E.H.C.)

(52) *Iynx torquilla*. *Wryneck*.

Arrival.

- Apr. 28 One heard close to Canon Parish's garden at Poole.
 May 27 Heard outside Wareham Station. (E.H.C.)

CUCULIDAE.

(53) *Cuculus canorus*. *Cuckoo*.*Arrival.*

- Apr. 21 Two seen and one heard at Canford.
 Apr. 28 Six or seven heard between Broadstone and Poole.
 Apr. 29 Two seen at Lytchett Beacon, Poole.
 Apr. 30 Many at Canford.
 Fifteen or twenty seen or heard at Badbury, (E.H.C. and W.P.C.)
 May 5 Several between Poole and Wareham. (F.G.P.)
 May 28 One unusually vociferous bird at Badbury. (E.H.C.)

Nesting.

- July 10 One on Broadstone Golf Links. This may have been the bird seen by Mr. G. Parry in a nest on the Links earlier in the year, and not reported before to us. Unfortunately Mr. Parry did not note the foster parents.

Departure.

- July 23 At Badbury Rings, E.H.C. spent a long time watching a young bird eating the larvæ of *Zygaena filipendulae* (Six-spot Burnet Moth). The number of these larvæ this bird disposed of in an hour was incredible ; he ate one every two minutes, and was still feeding about four o'clock. He watched for them in the grass and pounced on them when they moved, took them crossways in his bill, then with a jerk of the head got them head or tail first, and down they went. E.H.C. got very close indeed, and in one or two instances he saw the prey the bird seized first. E.H.C. cannot actually say that

the bird sought prey by inspection; and he thinks from his behaviour that he ate those insects which betrayed themselves by movement. (E.H.C.)

- July 30 One young Cuckoo seen at Arish Mell. (W.P.C.)
 Aug. 1 At Arish Mell I saw one Cuckoo and the remains of others killed by hawks or owls, probably *Carine noctua*. (W.P.C.)
 Aug. 2 I saw two Cuckoos, and again on Aug. 4, when they appeared to be catching *Zygaena filipendulae imagoes*. (See E.H.C.'s note above)
 Aug. 6 One at Mupe. (W.P.C.)

CYPSELIDAE.

(54) *Micropus apus*. *The Swift*.

Arrival.

- Apr. 21 One seen at Canford Bottom. (E.H.C.)
 Apr. 27 A migration came in to Poole last night or early this morning. I saw twenty or thirty. (E.H.C.)
 Apr. 30 About the customary numbers present at Canford.
 A few swifts at Badbury.
 May 2 About the usual number of residents at Poole. (E.H.C.)
 May 28 In good numbers at Badbury Rings. (E.H.C.)

Departure.

- July 30 A few seen at Arish Mell. (W.P.C.)

CAPRIMULGIDAE.

(55) *Caprimulgus europaeus*. *Nightjar*.

Arrival.

- Apr. 30 At Canford, Dorset, one. (E.H.C.)
 May 14 E.H.C. put up a single male from the nesting ground of last year.

- May 21 W.P.C. found a male asleep on the ground at Canford by accident, but the bird is a very light sleeper. Though W.P.C. fetched his camera and set it up very carefully, the vibration caused by operating the tilting table wakened the bird, which fled. Later E.H.C. put up the female.

Nesting.

- June 30 At Haymoor Bottom, E.H.C. found a female sitting on the ground, for all the world looking like a piece of dead fir branch. She was nesting in the same place as in the preceding year. He put her up, and she was sitting two eggs of precisely the same type as those of the preceding year. The eggs were placed with their axes parallel and about two inches and a half apart, from which E.H.C. judged that she was not sitting hard.
- July 9 A second nest near the one above mentioned was deserted, and we believe the Sparrowhawks had the bird. The one above noted was still safe.
- July 16 This one was missing. There were a few of her feathers on the ground, and the stomachs of the two young nestlings, which contained *Parastichtis lithoxylea*, *Parastichtis polyodon*, and *Leucania pallens*. (W.P.C. and E.H.C.)

FLAMMEIDAE.

(56) *Flammea flammea*. *Barn Owl*.

- Apr. 8 At Knighton, near Canford. About 5 p.m. A Barn Owl, which was very pale and greyish-brown in colour, came hawking down the wet valley. He went up and down the marsh and worked along the bushes in a manner that

suggested that he was preying on small birds. We afterwards saw him hunt all the hedgerows round for about a square mile, and an hour later return to the swampy valley and sit about on posts which were there, every now and then quartering the furze bushes where numerous small birds roost. Altogether his behaviour was very suspicious.

There was evidence of considerable slaughter in the neighbourhood; but whether all or any of the victims were attributable to the owl we could not, of course, say.

We found the following remains—*Vaneillus vanellus*, the Plover (1); *Phasianus colchicus*, pheasant (2); *Anthus pratensis*, Meadow Pipit (1); *Erithaca rubecula melophilus*, Robin (1); *Columba palumbus*, Wood Pigeon (1); *Turdus musicus*, Thrush (1); *Lepus europaeus juv.*, Leveret (1); *Lepus cuniculus*, Rabbit (2).

STRIGIDAE.

(57) *Syrnium aluco*. *Tawny Owl*.

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|---------|--|
| Jan. 28 | At. 5.10 p.m. one flew over the upper end of High-street, Poole. (E.H.C.) |
| Feb. 19 | At dusk doubtless the same bird was observed in Longfleet flying precisely the same course. (W.P.C. and E.H.C.) |
| Apr. 30 | At Canford two observed sitting in a birch tree; on examination of the ground, below a fir tree which contained a squirrel's dray, close by, castings were observed. E.H.C. threw a stick at the dray and dislodged a squirrel, and concluded that this was not the nest, as he considered a squirrel and the owls would not share apartments. |

(58) *Carine noctua*. *Little Owl*.

Mr. S. H. Wallis wrote me, 4 February, 1916 :
 "You know how the Little Owl is spreading. Three pairs have been killed under my notice recently. These Owls are destroying the Nightingales, probably other night warblers. 25 April, 1916. There is a pair of Little Owls and has been all the winter at South Down Farm, Ringstead. They are very confiding and look in the window. Last Sunday week, Mr. Blinn, a baker, of Weymouth, took one in his hand."

25th April, 1916. "I can see Mr. Jesty, jun., for date. I heard yesterday that Keeper Hicks (Middleton Estate, Bradford Peverell) shot one eighteen months ago. A man working on the Park Farm at Hooke has seen them. They occupied a hole in a stump and frequently pitched on a wall. He said he could have caught them, they were not a bit shy. Respecting the destruction of the Nightingales, Howard Sanders, in his Manual of British Birds, says they destroy Thrushes. Nearly every little cover about these parts had Nightingales the year before last ; but last summer there was scarcely a pair here. My son, who is in practice at Wrexham and keen on observing birds, tells me the Little Owl is rapidly spreading and destroying the Nightingale ; and I have been told by keepers that they are vastly more scarce ; some kind of owl probably killed them."

Feb. 20 Close to the old pond in Break Heart Lane, Poole, I saw a *Carine noctua* fly out of an ivied tree. (E.H.C.)

July 30 Five seen at Flowers Barrow, East Lulworth. In connection with which it might be noted that small songsters are much scarcer in that neigh-

bourhood than formerly. I am satisfied that *Emberiza cirrus* was a victim at Arish Mell. (W.P.C.)

There can be no doubt whatever that the introduction of this Owl was a misguided effort to improve our fauna, for which I think Mr. Meade Waldo and Lord Lilford must take the blame. Both were good enough Naturalists to have known that "tinkering with the balance of Nature" is a job of a delicacy quite beyond the clumsiness of man. We have the Owls, which are a bad exchange for the valuable help of our insectivorous songsters. The Owls are, compared with the birds we lose, vastly inferior in utility, interest, and beauty; and their miserable hoot in the place of the melody of our *Sylviidae* and *Turdidae* is a loss to our woodlands and downs that would make a marble statue weep. I suppose the introduction may be put with that of the thistles in New Zealand, the pig in Mauritius, the rabbit in Australia, and the Sparrow in the United States of America.—ED. PHEN. NOTES.

FALCONIDAE.

(59) *Buteo buteo*. *The Common Buzzard*.

- Jan. 23 At Bere Wood one seen on the edge of the wood, close to the wilderness below Woodbury Hill.
- Oct. 26 One reported by Head Keeper Wren on the Canford Estate. (W.P.C.)

(60) *Buteo lagopus*. *The Rough-Legged Buzzard*.

On 23 April, 1918, Mr. S. H. Wallis, of Weymouth, wrote me as follows:—"I have been offered a Rough-Legged Buzzard killed on Thursday (viz., 20 April). However, being

called home quicker than I expected, as I was on a tour visiting gamekeepers, I brought the bird home ; you are welcome to it. The Buzzard was killed on Mr. Sheridan's estate at Frampton and passed to Mr. Norman, one of his keepers ; the bird was entangled in thorns and murdered with a bill hook."

(61) *Accipiter nisus* and *Falco tinnunculus*. (63).

Throughout the year a very satisfactory increase in the number of these was observed at Poole. We noted that a Sparrow Hawk was still using the same tree for meals that he used last year. (W.P.C. and E.H.C.)

Accipiter nisus. Sparrow Hawk.

Apr. 15 This bird seems to like feeding in a slightly open place amongst dark pines ; such places are usually afforded at Canford by the lower limbs of straggling oak trees planted among pines. The darkness appears to kill the lower boughs of the oaks, which, being bare, make convenient "butcher's blocks" for Sparrow Hawks. Close to Broadstone the lower limbs of an oak so situate were thick with feathers of small passerines ; and I found the remains of a Song Thrush and of a Chaffinch. (E.H.C.)

May 14 At Canford Bottom. Dr. Penrose, W.P.C., and E.H.C. saw male take the same course through a small wood on two occasions. After noting course all three took up different positions to watch. E.H.C. saw male enter and then heard a little fluster in a pine tree. Dr. P. then whistled for E.H.C., who fetched W.P.C. and joined Dr. P. Dr. P. saw female come out of the trees, make a stoop at the male, after which

male saw him and both left. Then discovered a nest high up in a fir tree from which the male had moved, which will no doubt be the nest that will be used.

June 5 E.H.C. put the female Sparrow Hawk off the assumed nest.

June 25 We examined the Sparrow Hawk's nest to find the young had already begun to "hunch" themselves in the nest, and shew quills. We decided that if anything was to be done it would have to be done quickly.

Dr. Penrose, after carefully considering the situation in the light of his own experience as a bird photographer, decided that the situation was an impossible one to tackle by leaving the nest where it was. No near trees presented any facility for the erection of a hide of any kind, labour and material prohibited erecting a scaffolding; and the actual nest was so severely shaded from the necessary photographic light by neighbouring taller fir trees that moving the tree, or the nest, was the only possible method. The whole tree seemed too big a task, as it was 40 feet and upwards high, and the nest 27 feet from the ground. We were reluctant to interfere with the nest itself, so that the only other thing to do was to cut the head off the tree and take it down and plant the truncated top elsewhere. This we finally did. Just how it was done is a most interesting story; but as it is a long one and would need diagrams to make it understandable, I fear that I cannot set it out at length here, or the chief editor and publication committee will call me over the coals. However, a conference with Mr. T. J. Meaby, the Canford Estate Agent, to whom we applied for permission to carry

out our scheme, gave us not only a permission, but an enthusiastic assistant, who commandeered Mr. MacCullum, the chief woodman of the estate. Thereafter we were merely spectators, as the two experts settled precisely what to do and how to do it, what labour and materials were necessary, and that 27th June, 5 a.m., should be the day and time. Captain J. J. Condon, of Poole, and Messrs. Burt and Vick, of Poole, kindly lent us between them two ladders and an ample supply of cables and scaffold ropes. With the aid of two woodmen and Head Keeper Wren, under Mr. MacCullum's supervision, the tree was cut off sixteen feet from the ground, the top lifted and slung 35 yards into an open space, replanted, and the young replaced in the nest now in a light position 10 feet or so from the ground, instead of 27 feet as before. The weight of the top, even after some of the superfluous greenery that was "out of the picture" had been removed, was estimated at two tons. It was no mean feat, therefore, to move this from 16 feet above ground to ground level, and then 35 yards along, without damaging the nest in any way, because a Sparrow Hawk's nest is mainly dead sticks somewhat loosely put together. W.P.C. and E.H.C. are perfectly confident that, without Mr. Meaby and Mr. MacCullum, they would have made an absolute hash of the job. The nest was subjected to close observation by Dr. Penrose, E.H.C., and W.P.C. The following is a condensed transcript of the notes, the observer's initials standing first.

June 28

7 a.m. Put up W.P.C.'s tall tent, top height 8 feet from the tree—this took $1\frac{3}{4}$ hours to get it all secured. W.P.C., who had not

been present at the decapitation of the tree, decided that the job could not have been better done.

June 29 After two hours erecting tripod (11 feet 6 inches high), securing camera, focussing and completing tent decorations, E.H.C. got settled with the 210 mm. f 6.8 Georzi Dagor, a much overrated lens.

E.H.C.

At 9.15 a.m. the light was very changeable and difficult. The five babes are very restless in the nest. They void excrement by pushing their hinder parts to edge of the nest and forcibly expelling the liquid ejecta. This has already limed a tree and the tent 8 feet away from the nest. Now and again one of the nestlings would stand up and shake its tiny wings, which already show quills about 1 inch long, and the tail quills are about $\frac{3}{4}$ of an inch long. 10.30. It started to rain, and the female came to the nest a few minutes later, arriving at the back with food, which she put down for the young. She kept behind a big limb of the tree and did not show her body. She peered through my peephole and I kept perfectly still and then she quitted. I fancied she saw me through the peephole, but whether she did or not I cannot be certain (I always think they do see me). I had my peepholes cut down as small as possible, and I seem to work with much smaller peepholes than most pictures of birds' tents that I have seen shew. The female gave no warning of her approach, and never made a sound from first to last. (From subsequent observation I have decided that the female did not see me.)

10.50. The rain threatened, at 11 a.m. it rained fast and got dark. I hoped the female might come to cover the chicks, but she did not turn up. 11.10 just as I was preparing to come down off the steps (it might be explained a very tall pair of Jones patent steps was used to sit on inside the tent to enable the necessary height to operate the camera to be attained) I heard the male call; and at 11.17 the male, to my surprise, came to the nest with food in his claws. I could not see what he brought, but he just pitched down at the edge of the nest, dropped the food, and was off in a flash without giving me a chance to expose a plate. The food seemed to be a nestling chaffinch. The young stood on the food and pulled it to pieces with their beaks. 11.30 it settled in to rain hard; so I gave up.

(The books say the male does not come to the nest. As will be seen, the three observers responsible for this note disagree with the books, as is not unusual. Dr. Penrose's previous experience also was that the male did come to the nest. The male usually called jill, jill, jill, very loudly if he required the female.)

June 30

E.H.C.

To-day is a blue-and-white-sky day with fresh hard wind, after a night of heavy rain, and the wood smells lovely. At the foot of the Sparrow Hawk's nesting tree the light varies from 90 secs. Watkins in shadow to 25 secs. in sunlight. From 10.30 to 11 I occupied myself with colour photographs of the young. 11.10 I settled down. 11.15 female came round the nest with prey in her claws and called "kree" about seven times quickly and the babes answered "kerwee kerwee kerwee," but as I

was outside the tent at the moment the female went away calling. I put up a few twigs at the back of the nest out of view of the camera so as to induce the female to come to the front of the nest instead of hiding behind the tree as she did yesterday. 12.15 the female came to the nest on my side, then crossed over and got behind the trunk, where she stood with the prey under her feet, and tore it up into small fragments, with which she fed the young from her beak, or else dropped pieces of food on the bottom of the nest. Having completed this she quitted noiselessly. After being fed the young stood upon their unsteady little legs and changed places. They then searched the bottom of the nest for food fragments, after which they stood up and lurched about dangerously, stretched themselves, flapped their tiny wings, and settled down again.

About 1 o'clock the female came round again calling "kree" about seven or eight times running, and the young replied "kerwee" (the "ees" being long-drawn and accented) many times in little wheezy piping voices. At 1.15 the female came to the back of the nest and tore up food and fed the young out of her beak, keeping her body behind the tree. As soon as the female quitted I came out and put a few twigs behind the tree to force the female to come to the front of the nest; but I had to avoid very carefully putting anything that would shew, as I did not want anything in the picture that was not as Nature and the Sparrow Hawks intended. At 2 p.m. there were a few spots of rain, but not enough to bring the female to the nest. At 2.45 the young birds (who spend a good deal of time in watching flies and snap-

ping at them, as far as I can see, unsuccessfully), it being now nearly two hours since the female fed them, and they all having voided excrement, became restless and kept looking up expectantly.

The young are not pretty full face, and look very cruel; their claws look very large. (I might insert here that the major portion of their irides appeared to me at this age about "kitten" blue; as they got older it gradually got greenish, and finally assumed a decided yellow, but not as deep as the yellow of the adult hen which was about No. 3 Chrome Yellow nor as orange as the adult cock, which was about Cadmium No. 2. (W.P.C.))

At 3 the female arrived with a young bird plucked about the size of a juvenile blackbird or thrush, but I could not see the feet. The female tore up the food for the young.

At 3.20, as the nest was in shadow, although the light was very fast, I went out to stretch my legs, as I did not expect the hen to return before 5. In so doing, I disturbed the female from a near tree.

3.45 I returned. At 4.7 the male arrived and pitched on the far side of the nest, behind the tree. He did not tear up the food he had in his claws, but dropped it in the nest and floated straight on to the lower limb of the nearest tree. I was delighted to have ample opportunity of viewing the male, as I had understood that he did not bring food to the nest. He stayed for fully two minutes about 25 feet away from me, and cleaned his beak on the dead fir limb he had pitched on. He was a lively rufous specimen, and, while glad he gave me such ample chance to verify his sex,

I was disappointed that he gave me no chance to expose a plate on him. At 4.11 female came and sat on the tree on the right hand side of the trunk. She then floated on to a tree close to where the male was, and watched the tent very closely. At 4.30 the female was still on her perch, and I regretted the absence of the Reflex and the 17in. Telecentric. At 4.23 female went off, calling as she went, and the young replied. The flight of these birds is as silent as thought; one hears a call of "kerwee" from the young, the little heads go up, then a shadow passes over the tent and the birds are there on the nest without a whisper of a sound, unless they happen to call as they come. (We remarked on several occasions how keen the sight of the small birds was. They seemed not only to spot the parent bird at a distance at which to our eyes the cock bird was the merest speck, but also to be able to look for and see the parents right under the sun, a feat quite beyond the human eye.)

4.27—The female arrived with a young small bird plucked, tore it up, and fed the young from her beak.

4.45—I gave up.

July 1

F.G.P. (Who recorded both solar time and summer time as a check. I have dropped the latter. Ed. PHEN. NOTES.)

9.40 Got into the tent.

10.20 Female brought a plucked bird about the size of a thrush. She stayed pulling it to pieces and feeding the young birds for about two minutes. Towards the end of this time the male called from a distant point and then came gradually nearer. The female stopped feeding the young and listened to the male

calling ; she then flew away and the male came to the nest apparently with food, though I could not see what he brought, as he stood partly hidden behind the stem of the tree. However, he came forward and began apparently to feed the young. Almost immediately he either saw me or was disturbed by the tent as he flew away and began calling. The whole time from the female coming to the male leaving was about 10 minutes.

10.45 a.m. I moved in the tent, and heard one of the old birds fly off. I had shifted and had not been looking out, so had not seen the old bird return to the nest, and did not know it was there.

11.15 a.m. One of the old birds called from a neighbouring tree ; the young apparently took no notice ; they did not cover nor keep still, nor did they evince any expectation. (See, however, note below).

11.30 a.m. One of the old birds called again. The young stood up (and one defæcated) and all moved about in the nest, but did not appear to be specially looking out.

11.40 a.m. One of the old birds stepped on to the side of the nest, deposited a plucked young bird and immediately went off again, not staying to break it up and to feed the young. (E.H.C. remarks that he thinks this was the male. Compare his note at this time of day on the 29th June).

One of the young birds began to tear at the prey and to feed itself. Another uttered a whining note.

12.45 The female flew past the tent and settled on the far side of the nest. She fed the young for about five minutes. I could not see what

she had brought, as the stem of the tree prevented my seeing more than her head and the forepart of her body.

Nothing further seen before 2.45 when I stopped.

2.45 (W.P.C. and E.H.C. arrived, and after discussion turned the tree a half circle round, hoping thereby to get rid of the difficulty of the trunk. We felt that birds were still likely to go behind the trunk, which was at this point trifurcated, but Dr. Penrose considers that we should not have felt satisfied if we had not resorted to this expedient. In the result, what we judged likely to happen did happen).

W.P.C. and E.H.C.

From 2.45 to 6.45, we were engaged in erecting an additional tent and tripod, as this was a difficult job, since existing tents and tripods were meant for work no higher than six feet. Four hours soon went. We retired twice to allow the parents to feed the young. One of the young birds (actually a female) we christened Napoleon. It stood in the classic attitude adopted by its namesake, and followed the whole proceedings with the greatest interest, walking round the nest to keep us in sight. This bird was the most advanced of the brood, and apparently fearless.

July 2

W.P.C. and E.H.C.

8 to 10 was occupied in getting cameras, etc. set. During this time the male came and called in the neighbourhood of the nest. We retired a few yards to enable him to bring food to the nest. He came up at a tremendous pace; on reaching the nest raised both wings and spread his tail, and was still for just a

fraction of a second, when he dropped his prey and flashed out over the top of W.P.C.'s tent. The young had progressed very fast and were fledging on their backs, and their quills and tail feathers were very apparent.

11 a.m. female came to the nest, and, notwithstanding that we had turned the tree, she pitched on the side furthest from us, and managed to keep a bough between herself and the tents. She stayed about two minutes and a half tearing up food and feeding the young from her bill ; she then departed, leaving the young to pick the remnants of the prey.

11.30. female brought prey in her claws, but we could not see what the prey was. E.H.C. knew that one of the parents was near, as the young were expectant and started calling kerwee, kerwee. They made much more noise than they did a few days ago. The female stayed about a couple of minutes feeding the young. As to the habits of the male Sparrow Hawk towards his offspring, the statement that the male prepares the food and gives it to the female, and that only the female comes to the nest, is a fallacy. We think both birds bring the food to the nest, but that the female usually does the tearing up. Keeper Wren says the male comes to the nest with food and attends the young with food after they leave the nest ; and probably he is one of the few keepers that have observed the behaviour of hawks excepting "under fire."

At 12.5 female came into the wood with prey. E.H.C. saw her circling above the trees, then she flew round from tree to tree, staying a little while on each, probably to pluck the prey. During this time the young kept up their cries.

Presently the female came to the far side of the nest. Immediately afterward she quitted. (W.P.C. thinks a movement by him disturbed her). However, she soon returned, but was suspicious and very active and inclined to be nervous. She began to tear up the food, but quitted again. At 12.15, however, she returned and completed her task.

At 12.30 we went out to lunch. The male appeared like a tiny speck above the nest at 1, so we went into our hiding tents. At 1.5 the male came in. He flew straight up to the nest, poised a fraction of a second, dropped the prey he had in his talons, and shot out over the top of W.P.C.'s tent. He remained, however, in the vicinity, calling for the hen. He flashed past W.P.C.'s tent so closely that the air disturbance as he passed caused a perceptible draught through the peepholes.

When the food was placed in the nest the young all got on their feet and called repeatedly, apparently expecting the female to come to break up the prey. As she did not arrive they pulled it to pieces for themselves.

Head Keeper Wren said the nest contained three females and two males, and he was right. The three females grew much more rapidly than the males and were earliest to leave the nest. The eldest female, "Napoleon," was seen to tear up prey and feed the youngest and most backward chick, a male, with it.

1.30. The sun was full on the nest, and it emitted a most unpleasant odour of decayed animal matter, and was at all times the home of innumerable flies.

1.35. The young appeared to have eaten all the food the male brought. Their table manners

are very crude, and they smother themselves and each other with blood, and altogether are not a pretty spectacle at meal times. After this they all settled for a nap, but kept on fidgetting, though the restlessness of one chick does not appear to incommode his neighbour.

2.0 One of the parents sailed over and the young birds called, and then went to sleep.

2.30 One of the young woke up and started picking over fragments in the nest.

2.45 The male arrived with prey. He sat for about three minutes on a neighbouring tree, during which time the young called vigorously; and then he came to the nest, dropped the prey, and was gone like a flash.

3.0 The young were very busy picking over remains in the nest. The female was sitting in a tree about 50 yards away, and spent the following half hour making her toilet. This she did by stretching her wings over her feet and running her claws through the feathers, and raking the feathers under her wings with her bill.

At 3.40 she sailed off.

At 4.10 male returned and called for the female. As she did not reply he flashed into the nest, dropped the prey *Mus sylvaticus*, the Long-tailed Field Mouse, and was gone. He however returned, took up a position near at hand; and then the female turned up and tore up the prey. At 4.40 the female herself brought prey and fed the young, though she left the nest several times during the process, and returned. At 5 p.m. the female was still near the nest; but as the light had gone off we decided to pack. When we came out of the tents the female sailed off about 50 yards and sat up to watch us.

W.P.C. considers that it is only possible to photograph the male in bright sun, with a focal plane shutter, as his movements are so rapidly executed. He also noted that the young spent a lot of time ridding themselves of the "baby down" by pulling it off where they could reach it, and scratching. They were very voracious and greedy, and often nearly choked themselves by trying to swallow the prey whole. *E.g.*, a young male tried to swallow the after half of the field mouse whole three times, each time being compelled to disgorge it and finally to tear it up before eating it.

July 8

F.G.P.

10 a.m. Got ready in the tent.

10.30 a.m. Heard old hawk call. Quaere, was this a kestrel, as the young took no notice?

(There was a pair of kestrels feeding young not far away, so probably Dr. Penrose's quaere may be answered in the affirmative. W.P.C.)

10.37 Young all began to "peep" for a short time. To-day there are only three young in the nest, I think two males and one female. There were five a week ago. Later another female hopped back into the nest from a branch where I had not previously noticed it.

10.50. The old female just alighted on the far side of the nest, and went off again directly. The young called for a few seconds before she came.

11. Male came to the near side of the nest, dropped a small bird and went off directly. The prey was not plucked, but I could not identify it. The most backward young one immediately took it and began to pull it to pieces. Apparently the female brings her prey already plucked. This bears out what I saw

two years ago, and again last year at Downton. The cock brought the prey into the wood, the hen flew up to and took it from him, and then took it down to a dressing block, where she plucked it before taking it to the young ones at the nest. (E.H.C. remarks on this "The prey I saw the male bring was all plucked, up to last Sunday—*e.g.*, the field mouse was decapitated—and similarly all the female brought in was "dressed for the table." I never saw the male pass prey over to the female, but I could not see more than two hundred yards over an angle of 180° , so he may have done so. Doubtless different birds have different little ways, although their habits are in common. Moreover, as the young advance, the food possibly requires less preparation.) [Also experience has shown us that different observers have noted different habits with different pairs of birds, so that two diametrically opposed observations may both be correct. W.P.C.]

12.15 A brancher, the fourth young one, came back to the nest. It had evidently been sitting in the tree somewhere above the nest.

12.30 The most advanced of the three young that were in the nest when I came this morning left the nest for a walk on the horizontal branch on the far side from the tent, just below the nest level. The other young bird which was not in the nest when I came was working from branch to branch, often with the help of his wings.

12.33. Young began calling and looking round.

12.35. Female came and dropped something at the nest, flew away and returned at 12.39. She just came to the nest and then flew up into a tree about 80 to 100 yards away (and, I

suppose, took the prey with her ; but of this I am not certain). At 12.50 she flew back to the nest, flew away again, and then returned for a few seconds, leaving the prey. The brancher flopped back into the nest for its share. One of the larger and more advanced youngsters then fed off the prey the hen had brought, and when it had finished, at 1.12 p.m. another bird took the carcase and fed. I could not identify the prey beyond its being a bird of some size. The plucked carcase looked distinctly larger than that of a thrush. As noted above, apparently the female brings the prey plucked, the cock does not. At 2.18 the youngest or most backward youngster then got the carcase to pull at and fed hard. This had had nothing since its last good meal on the small bird the cock brought in at 11 o'clock.

E.H.C.

I rather fancy the restlessness of the female was due to shutter shyness, as Dr. Penrose was using a cinematograph camera. Both W. and I have seen the male bring prepared food to the nest, some of the little corpses being minus heads, wings, and feet too, sometimes. When the young were very small he seemed to bring in mostly small nestlings that did not want much preparation. As the young advanced I thought the food was served in a more rough and ready way, especially by the male ; and the birds brought seemed to be less tender morsels. That much food was consumed with small body-feathers on it was evidenced by the castings in and below the nest observed after the young had flown. While Dr. Penrose was packing his camera the male came in and dropped food

in the nest; two young flew off at intervals, a third climbed into the tree, and No. 5 (Napoleon having left entirely) remained in the nest.

E.H.C. and W.P.C.

3 p.m. We started work.

4.30 p.m. A young one climbed up the tree and flew off.

4.45 p.m. Male came to the nest with prey in his claws. Immediately afterwards one of the young males came back to share food, his idea of sharing it being to take it from the backward young one to the far side of the nest and devour it himself.

July 9

E.H.C.

12.30. The most backward young one was the only one left in the nest, but two others came back into the tree.

1 p.m. The female came in and fed three young in the nest, tearing up the food, a rat (*Mus decumanus*), as before.

1.30. Male dashed in with a small bird partially plucked, and swept out, without alighting.

2.20. The male flashed into the nest and dropped either *Anthus pratensis* or *Anthus trivialis* (bird of the year). The most backward young one made a meal off this. Soon afterwards I saw one of the more advanced branchers flopping about in an adjacent tree; and one young male joined the backward youngster in the nest. They all still called "kerwee." The old male was usually silent, but sometimes called a high-pitched "tcheer tcheer tcheer," and the female called a very full note "tcheel." One of the more advanced young, still a brancher, when mounting in the tree, moved his beak and neck very like a parrot; but, though I watched

this one and others very carefully, I could not see that they assisted themselves as a parrot does in climbing with their bills.

3.0. The female arrived and fed some of the young in the trees; one young male and one young hen could fly quite strongly and went a long way to meet her—quite thirty or forty yards.

3.10. The male arrived in the vicinity with prey, but did not come to the nest, and shortly afterwards the female came to the nest with the remains of prey.

4.15. The female came to the nest evidently after she had fed some of the branchers. The prey brought was what an engineering friend who was trying to stereoscope the nest, described as “the back axle, differential and torque member of a thrush with the casings removed.” I took this away from the babe, as I hoped he would call to his parents for food next time they were in the vicinity. He seemed very annoyed with me; but, as he did not do as I hoped, I restored the horrid remnant, and the babe set to work on it at once. He certainly evinced no fear of me. (I might add to this that far from shewing fear, the young birds were quite ready to go for my finger, and as they grew up would come across the nest and dab at one’s hand. As I had no particular desire to contract septicaemia I took great care that none of them got hold. W.P.C.)

4.45. Male fed the young that were out in the trees.

5.15. Female came, flew round with an unprepared blackbird in her claws. She settled on a bare branch near at hand, and, with a few deft strokes of her beak, sent feathers floating

through the air. Some of the skin and feathers appeared to be removed together, as the pieces fell straight to the ground. She rubbed her beak constantly on the branch to rid her nostrils of fluff, I suppose. In a couple of minutes she started going round to the branchers, feeding them from her beak, and I felt satisfied that she had fed four ; but she did not come to the nest. The last youngster will not be long in the nest, I think, as he has started climbing about the tree.

July 16 The nest was empty, so I made a long examination of the nest and remains. It took me about three and a half hours. The nest was 12 inches across and rather a rough oval in shape, being nearly 18 inches long, excluding the odds and ends of twigs projecting. The cup of the nest now trodden almost flat was originally shallow, and about the size of a double handful. The nest was about 12 inches from top to bottom, and was made of large twigs of fir and lined with smaller twigs of birch and fir. The whole was smothered with the down of the young, the small feathers of prey, the decayed castings of small feathers and bones. The nest, tree, and surrounding ground and herbage were liberally whitewashed. I found only one small fragment of egg shell in the nest. The *débris* of prey identified was as follows :—

- (a) *Fringilla cœlebs*—1 upper mandible.
- Turdus merula*—1 upper mandible, juv.
- (b) Skulls with mandibles attached nearly all shewing crown cheek and some chin feathers : *Passer domesticus*, 4 males and 2 females ; *Erithaca rubecula*, 1 male ; *Saxicola rubicola*, 1 male.

- (e) Feet and tarsi nearly all with tibia attached.
Turdus merula, 1 pair attached to back and sternum, 1 pair with tibiæ ; 4 right legs and 6 left legs, nearly all from young birds.
Turdus musicus, 5 right legs and 5 left legs with tibiæ attached, all from young birds.
Turdus viscivorus, adults, 1 pair, and 1 left ; juveniles, 3 pairs.
Passer domesticus, 1 right foot and tarsus.
- (d) Feathers not from birds already mentioned.
 Breast feather from *Caprimulgus europæus*.
 Crown feather from *Parus major newtoni*.

Below the tree—

Caprimulgus europæus, two sets of humerus, radius ulna, and phalanges from young birds.

In regard to the foregoing no trace of any member of the Galliformes could be found, although the parents searched the adjacent common land and the small holdings for food. There were on the former coveys of the Common Partridge (*Perdix cinerea*) and Red-legged Partridge (*Caccabis rufa*) brood of Pheasants (*Phasianus sp.*) as well as Anseriformes—*Anas boschas*, the Wild Duck, and *Tadorna cornuta*, the Sheld-Duck, with trips of young ; on the latter many domestic poultry.

Four young were still in the neighbourhood, attended by the female, and they were fed twice between 10 and 12 noon. At 3 p.m. we met the female coming home with food.

July 22 The young birds were still in the wood and were attended by the parents. They had acquired nearly adult voices, but one female still had down here and there amongst her feathers.

Head Keeper Wren reports that he had had two other pairs of this hawk under observation close to the chickens farm at Knighton, but so far neither pair has touched the poultry. (W.P.C. and E.H.C.)

(62) *Falco peregrinus*. *The Peregrine Falcon*.

Aug. 20 A pair of these birds seen wheeling over Durlston Head. (W.P.C. and E.H.C.)

(63) *Falco tinnunculus*. *The Kestrel*.

Apr. 24 At Canford Bottom I saw a male being mobbed by a pair of *Turdus viscivorus*, Missel Thrushes, that nested close to Longfleet Lodge. I had seen what was presumably the same male Kestrel in the air carrying a young Song Thrush dead in his talons.

May 14 Examined, with Dr. Penrose, at Canford Bottom numerous castings of this bird containing fangs of adder, skin of adder and vertebræ, enormous numbers of elytra of beetles, many brilliantly iridescent green, legs beautifully purple, and parts definitely attributable to *Cicindela campestris*, the Tiger Beetle, in addition to the hair of *Mus sylvaticus*, the Long-Tailed Field Mouse. (W.P.C.)

July 23 A male seen hawking butterflies at Badbury Rings. (E.H.C.)

Aug. 5 Between Arish Mell and Mupe, four seen hawking butterflies all day, mostly *Melanargia galatea*, *Argynnis aglaia*, *Hipparchia ianira* and *Satyrus semele*. (W.P.C.)

PHALACROCORACIDÆ.

(64) *Phalacrocorax carbo*. *The Cormorant*.

Nov. 28 Several seen at Abbotsbury. (F.L.B.)

ANATIDAE.

(65) *Branta bernicla*. *The Brent Goose*.

Locally-killed birds in poulterers' shops at Weymouth, Nov. 21-23; eleven on Lodmoor, Weymouth, Nov. 22; and five on Lodmoor, Weymouth, Nov. 29. (F.L.B.)

(66) *Tadorna tadorna*. *The Sheld-Duck*.

Apr. 15 This bird had started investigating the rabbit burrows in the vicinity of Poole—for suitable nesting places. House hunting with them is a very exhaustive process, and the sand on the "tip" at the entrance of most rabbit holes show the footmarks of this species. Moreover, the emergence of a Burrow Duck from a hole does not always indicate a nest by any means.

Apr. 21 Five pairs seen investigating a rabbit warren at 5 a.m. by a reliable observer.

Apr. 30 At Canford Bottom watched a pair flying high over the woods and found it was male escorting female to nest to lay. Female pitched down into heather and male stood out to sea again. We went across and found footprints of female outside and into a sandy rabbit burrow, and subsequently found down in the vicinity.

May 7 W.P.C. observed another female to a nest in Canford Bottom.

E.H.C. saw a female go out from laying at 4.30 p.m.

May 14 W.P.C. saw a female go out at 12 noon from laying. (W.P.C. and E.H.C.)

(67) *Anas boschas*. *The Mallard*.

Feb. 27 On Hatch Pond in Poole, about 15 *Anas boschas* seen; on March 5 eleven seen; on March 6 seven seen. Doubtless the numbers on Hatch Pond are swollen with immigrants in winter

Apr. 21 Six males seen without their mates, on the ponds on Canford Estate. (E.H.C.)
Many seen at Abbotsbury Nov. 28 ; and many on the lake in Melbury Park, Dec. 30. (F.L.B.)

(68) *Querquedula erecca*. *The Teal*.

Nov. 20 Four on Lodmoor, Weymouth ; locally-killed birds in poulterers' shops at Weymouth Nov. 21-23. (F.L.B.)

(69) *Mareca penelope*. *The Widgeon*.

In poulterer's shops at Weymouth, Nov. 21-23, locally killed ; many seen at Abbotsbury, Nov. 28. (F.L.B.)

(70) *Spatula clypeata*. *Shoveller*.

In poulterer's shops, Weymouth, Nov. 21-23, locally killed ; about 30 seen at Abbotsbury, Nov. 28 ; Mr. S. H. Wallis records this bird as breeding on Lodmoor. (F.L.B.)

(71) *Dafile acuta*. *The Pintail*.

One male and 2 females seen at Abbotsbury, Nov. 28. (F.L.B.)

(72) *Nyroca ferina*. *The Pochard*.

Feb. 6 At 4 p.m. hard wind from West. About 100 Common Pochard on Poole Park Lake about 40 yards from shore and very tame.

Mar. 19 Very wet with E.S.E. wind. Six Tufted Duck and 30 or 40 Common Pochard on the Salt Water Lake, Poole. (E.H.C.) In poulterers' shops at Weymouth, Nov. 21-23, locally killed ; many seen at Abbotsbury, Nov. 28 ; and a dozen at Melbury Park, Dec. 30. (F.L.B.)

(73) *Nyroca marila*. *Scaup*.

- Jan. 2 Hard wind from South, going westerly as day advanced and freshening with driving rain. Arrived at 2 p.m. on Salt Water Lake, Poole Park. Soon after saw three large bunches of ducks come in, 200, 120, and about 30, followed by a lot of 10's, 6's and 5's, followed again by stragglers, and all circled round the lake and splashed down amongst the Coots and Common Pochard. The large bunches were Scaup Duck, (*Nyroca marila*), but they were very restless and did not remain in the water long, although at one time there must have been over 300 individuals on the lake, and over 550 ducks of sorts. Of the remainder about 200 were Common Pochard, and two Tufted Ducks were identified. (W.P.C. and E.H.C.)
- Jan. 8 A single Scaup Duck was noted on Poole Park Lake by W.P.C.
- Feb. 21 About 30 Scaup Duck flying over Poole Park Lake, displaying their prominent white wing bars. 80 Common Pochard floating on the Lake. (E.H.C. and W.P.C.)

(74) *Nyroca fuligula*. *The Tufted Duck*.

A male at Melbury Sampford Lake, 27 Nov. ; a few seen at Abbotsbury, Nov. 28 ; and one male on Melbury Lake Dec. 30. (F.L.B.)

(75) *Oedemia nigra*. *The Common Scoter*.

Two seen at Abbotsbury, Nov. 28. (F.L.B.)

(76) *Mergus merganser*. *The Goosander*.

Three on the Fleet inside Chesil Beach, Nov. 22. (F.L.B.)

CHARADRIIDAE.

(77) *Scolopax rusticola*. *The Woodcock*.

Jan. 23 In Bere Wood two were observed.

Mar. 26 Canford Estate, two seen. (W.P.C. and E.H.C.)

(77a) *Gallinago gallinago*. *Common Snipe*.

May 7 Two males seen at Canford Bottom.

May 13 One male seen at Canford Bottom.

May 20 Several observed and one male seen drumming at Bere Wood. (W.P.C.)

(78) *Tringa canutus*. *The Knot*.

Mar. 19 A few seen at the edge of Poole Harbour. (E.H.C.)

Mar. 24 A small flock at Houlton Mere, Poole Harbour. (F.G.P.)

(79) *Tringa maritima*. *The Purple Sandpiper*.

Aug. 1 A single bird seen on the rocks at Arish Mell. (W.P.C.)

(80) *Tringa alpina*. *The Dunlin*.

Aug. 14 A full company seen at Poole for the first time this autumn. (W.P.C.)

(81) *Totanus totanus*. *The Redshank*.

Mr. S. H. Wallis reports this bird as breeding on Lodmoor. (F.L.B.)

(I have seen eggs from Lodmoor. W.P.C.)

Apr. 21 This bird has extended its nesting range and altered its habit in Dorset by nesting further inland of recent years.

May 16 Heard in the marsh at Canford Bottom.

July 26 A migrant flock going Southward over Poole.
(E.H.C.)

(82) *Totanus hypoleucus*. *Common Sandpiper*.

Upward migration.

Mar. 22 One seen outside Poole Park.

Apr. 28 Five seen at Poole.

Downward migration.

July 19 Two seen at Scratchcraft, Poole.

Aug. 12-13 Many at Scratchcraft, Poole. (W.P.C.)

(83) *Numenius arquata*. *The Curlew*.

May 16 Heard calling in Canford Bottom, but no evidence of nesting has been procured by us.
(W.P.C. and E.H.C.)

(84) *Numenius phaeopus*. *The Whimbrel*.

Upward migration.

May 1-6 Many seen in Poole Harbour. (F.G.P.)

(85) *Aegialitis hiaticula*. *Ringed Plover*.

Apr. 16 A finished nesting scrape noted near the margin of Poole Harbour. (E.H.C.)

(86) *Vanellus vanellus*. *The Lapwing*.

Feb. 27 In Haymoor or Canford Bottom, E.H.C. heard these birds "weeping" for the first time this year.

Apr. 21 A female seen to fly down at 4.45 p.m., escorted by the male, evidently going to nest in Canford Bottom. The manner of flight is somewhat of a betrayal, as I immediately walked over and found the nest and four eggs. Late in the

evening I put up a bird tent to this nest and strained it well with fir boughs ; but even then the high winds caused it to flap, and I presume that this made the birds desert as they did.

- Apr. 29 Having located another pair in Canford Bottom, E.H.C. took advantage of its situation to try a new and quicker method of finding the nest than watching, which was successful. There were four eggs, and incubation was only just commenced, judging from the appearance of the eggs.

Late in the evening W.P.C. and E.H.C. pitched the bird tent about 30 yards from the nest. This bird promptly deserted.

- Apr. 30 A female sitting in a fallow field near Badbury Rings (W.P.C.). Seen by E.H.C. with young on May 28.

- May 3 Put up a tent to a third nest at Canford, at 25 yards distance from the nest, just as dusk was falling.

- May 6 Shifted tent right up to nest, as the bird was evidently intending to sit, notwithstanding the tent.

- May 7 Put up Trellis and 12in. Ross Homocentric to this bird, which was sitting when we approached. E.H.C. started work at 11 a.m.

At 11.45 W.P.C. returned to flush the bird, so as to give E.H.C. a chance of getting a picture of her leaving the nest ; but E.H.C. had given her ten minutes to get used to the lens, so was not ready. The habits at the nest gave little to note ; but the result of our joint observation is as follows.

The male and female usually return together, and the male takes up a point of vantage, and the female runs to the nest halting every little while and depressing her body and lifting her

tail as if she were pivoted at the "hips" (which in fact she is), and raising her head up and down in the same way as *Aegialitis hiaticula*, the Ringed Plover. As a photographic sitter she is a perfect bird, and sits very quietly, taking very little notice of the shutter. She sat head to wind all the time. E.H.C. heard her speak only about three times, and then she gave a plaintive note and not very loud, like the first syllable of the plover cry. At the approach of danger the male rises with a call of "weet" rather long drawn, and the female runs a few yards and rises too.

In the afternoon W.P.C. secured the male bird taking his share of incubation, the difference in the tone of the back and head markings being quite distinguishable in a monochrome photograph, and easily so in the colour photographs obtained. (Paget and Autochrome).

- May 10 E.H.C. had a further try at these birds; but although photographically he procured interesting results, his notes disclosed no further details of habit, which is perhaps not surprising, seeing that the young had not hatched.
- May 10 Observed this male drive a female *Accipiter nisus* away from the nest.
- May 14 E.H.C. once more tried this pair, hoping he might be successful in obtaining a photograph of the two birds changing over, but was not successful, although he saw the birds change places. He noted further that the female takes no notice of whistling, talking, or any noise that is not violent. Two birds talk to one another "whee-wheet, whee-wheet," and the other replies with the same note from post as sentry. E.H.C. also heard the female call to the male by making a continuous "wheet-wheet-

wheet," repeating it many times running, rather like a Ringed Plover's call, only a plaintive note more like a "weep" than a whistle. When the birds changed over they both ran to one another and conversed in the same tones. They have quite a language, besides the cries known only to the unhidden disturber. He noticed the birds turn their eggs with their feet. (E.H.C. and W.P.C.)

LARIDAE.

(87) *Larus marinus. The Great Black-Backed Gull.*

Nov. 20 A few near Portland Station. (F.L.B.)

(88) *Larus fuscus affinis. The British Lesser Black-Backed Gull.*

Nov. 20 A few near Portland Station. (F.L.B.)

(89) *Catharacta skua. The Great Skua or Bonxie.*

Mr. Wallis wrote me 4 February, 1916: The first Great Skua I ever saw in the flesh was shot here (*i.e.* Weymouth) a month ago.

23 April 1916. I was called away from home or I should have reached Martock. It is my opinion the farmer is afraid of the Bird Protection Act. However, the farmer, Mr. William Tucker, of Manor Farm, Martock, Somerset, wrote Mr. Wallis that he had had the bird stuffed and would try to find out who shot it. So far the enquiries have not resulted in any information being forthcoming.

(The farmer mentioned purchased the bird in the flesh of the murderer and took it to Martock, where he lived. The bird is a great rarity in Britain, and is on the "Specially

Protected List." The Police as usual failed to prosecute. They are supine, and receive no encouragement from the magistracy. The Police will not diligently take up a class of offences unless the Magistrates back them by substantial penalties on a conviction. W.P.C.)

ALCIDAE.

(90) *Alle alle. The Little Auk.*

Nov. 24 Two close in shore at Weymouth. (F.L.B.)

Nov. 29 One landed alive close to the Victoria Hotel, Swanage. (F.G.P.)

PODICIPIDAE.

(91) *Podiceps auritus. The Slavonian Grebe.*

Nov. 19 A flock of ten in Portland Roads; and in Weymouth Bay on Nov. 21 and on several subsequent days. F.L.B.

(92) *Podiceps fluviatilis. The Little Grebe.*

Apr. 21 A pair seen making a nest at a point where a stream enters a large piece of water on the Canford Estate. The female (presumably from her feminine manner) was making a nest of sorts in a most unsuitable and exposed position on what is usually the lee side of the pond.

May 7 A visit to this nest resulted in finding three very iron-stained eggs that the female had not had time to cover as E.H.C. approached.

May 13 This nest had been robbed by some egg-snatcher.

May 28 This pair had another nest with four eggs in another position and further from shore than the nest that had been robbed.

- June 3 We erected a hiding tent near this nest.
- June 4 One young bird had just hatched at 9.45. The parent covered eggs and nest with dry shaving grass and weed, and dived off on our approach. E.H.C.'s notes run as follows :—
 “ 10.9. The parent birds appeared in the offing at the entrance of the gully in which the nest was situated. 10.11. What proved to be the female started swimming into the gully, halting every little while to look round. She swam over the weedy parts of the gully, but passed the clear spaces by diving. She halted about 20 feet from the nest and watched the tent very carefully, then took a dive and came up close to the nest. She then swam round the nest a few times and, having satisfied herself that all was well, she climbed up on to the nest, disposed of the covering of the nest round the sides of the nest and settled down on four eggs (stained rust-red by the iron in the water) and drew the chick under her wing. E.H.C. gave her 10 minutes on the nest and then gave a fast instantaneous exposure, and a few brief moments after the female quitted without covering the eggs or chick, and dived and swam to the gully mouth. Just as she left the nest a hawk came over twittering ; and this bird (*Accipiter nisus*) had, I think, more to do with the dabchick quitting than the shutter. 10.28, the female came back up the gully again, taking the same route and swimming and diving as before.
 At 10.35 she was on the nest again, and kept turning her head sideways and looking up into the sky as if she still had the Sparrowhawk in mind. The arrival of a pair of Jays in a fir tree on the bank opposite the nest did not

disturb her, save that she faced them until they left. At 11.2 I exposed a plate, and as I was changing plates the male arrived at the nest and the birds changed places. I thus lost my only opportunity of getting both birds at the nest ; but I was interested to note beyond doubt that both parents take part in the incubation.

As far as restlessness is concerned both male and female are very active ; they keep constant observation on all points of the compass, moving their heads in a series of jerks. They also move their tails (such as they are) and wings a good deal, but do not fidget their feet so much.

At 11.20 W.P.C. and L.M.C. approached (as previously arranged, to give me a chance or two at the birds near the nest, since an undisturbed sitter rapidly exhausts possible attitudes for pictures). The male covered the eggs and dived off with the chick under his wing. A few minutes after W.P.C. and L.M.C. left, the female came to the mouth of the gully with the male, and the latter came back up the gully to the nest, and stopped a few yards short of it in the weeds where the nestling was floating. At 12 noon he was still alongside, and the nestling vainly tried to get on his back. The babe swam into the thicker weed, the male keeping beside it, but making no effort to get it up, and seemingly most anxious and perturbed about it. In a few moments the babe lay out motionless and exhausted, and at 12.10 the male stood out and dived off to the pond, having given the babe up apparently. When the male got out into the pond he called the female, which is the smaller bird of the two, and they both came a little way into the

gully. The female went straight to the nest without heeding the apparently lifeless chick lodged in the weed. The male quitted the nest with half the egg shell in his beak, dived, and rose without it. Then the female came in and settled on the nest, which the male had not covered. It was now 12.30, and both birds had apparently given up the nestling, which I took to be drowned.

The female remained on the nest until 12.50, moving at every sound. At 12.50 the male came and the female quitted, and the male mounted the nest ; but he had not got the babe likewise he did not do what I desired as regards posing, for first he sat facing the opposite way and then directly facing the camera. At 1.0 I noticed the nestling was not dead, because he struggled and made a small ripple, so I stole softly out of the back of the tent and, appearing some distance away, I put the male off the nest and went round with a couple of long sticks lashed together to fish out the nestling, which I managed successfully. The poor little chap was nearly done, so I laid him on the warm bank in the sun after holding him up and letting the water out of his mouth and throat, after which he opened his eyes. I then transferred him to my pocket. About three minutes after I heard a faint cheep like a chicken, and found the nestling, while anything but vigorous, to some extent recovered. I made a little nest of dry grass and put him in the warm sun close to the real nest, which was out of my reach. I then went back to the tent and at 1.20 one of the parent birds appeared in the offing. I heard both birds calling to one another while on the pond, the note being a

repetition about twenty times of the syllable "queek" and something after the style of the call of a guinea fowl (*Numidea meleagris*), only on one note, not two. Both birds when in close company make a funny little "queek" like the first syllable of a waterhen's call on a very low and soft note.

Both birds are such fidgets that the only way to make a successful exposure is to note the position in which the bird most often keeps its head in a series of movements and then to start the exposure immediately its head arrives at that point.

At 1.40 the male sailed in and dived, coming up close to the nest, and then settled on. In a few moments the babe gave a feeble "queek," and the male spied it and came across, and I could not watch them under the bank. Five minutes after W.P.C. arrived with my lunch, and the male still stuck under the bank. I signalled W.P.C. to deposit my lunch and depart, but not before the male dived out from under the bank and across the other side of the gully. As soon as W.P.C. had gone the male came back again and covered the eggs, and then went under the bank close to me and stayed about a quarter of an hour, and I could not see a ripple; and so I stole out to get my lunch, and the male then crossed the gully. A few minutes after I had got back to the tent the male rose out of the weeds, and I saw the chick in the weeds beside him. The male then fussed round the chick for about a quarter of an hour; but the little chap could not get on to the bird's back. At last it crawled over the weed into a tangle of furzebush that drooped in the water. This completely baffled the male, and he, after

about a quarter of an hour longer, "stood out to sea," having apparently again deserted the babe. I then crawled out of the tent and rescued the chick, a not easy task having regard to its tenderness and the exceedingly uncompromising prickles of the furzebush. The chick was not so feeble as he had been after his long immersion, so I deposited him in the nest by aid of a long forked stick and returned to my tent just as the male came back. The bird had a good hunt for the chick where he had last seen it, but seemed unable to penetrate the furzebush. Three times altogether he hunted for the chick and then returned to the nest. The surprise of the male was only equalled by the vigour with which the chick made its way under the parental wing.

3.30 female arrived ; and, as she approached, the male quitted with the young bird under its wing ; but this time he sailed off without diving. The female quitted her incubation about every twenty minutes, and would go down to pond and would say "queek" ²⁰ ; the male bird would reply "queek" ²⁰ , whereafter the female would return and do a little more incubation. I never heard either bird speak loudly near the nest.

June 13 I walked up to see how the dabchicks had got on. One of the birds quitted the nest after covering it. The chick I found in the weeds near the entrance to the gully, and, judging by his cries, he seemed none the worse for his adventures.

June 16 The nest contained one egg uncovered and addled." (E.H.C.)

RALLIDAE.

(93) *Fulica atra.* *The Coot.*

- Mar. 19 The usual goodly company of coots that crowd down to the Salt Water Lake in Poole Park are visibly thinning out. (E.H.C.)
Thousands seen at Abbotsbury Nov. 28; and several on the lake at Melbury Park, December 30. (F.L.B.)

COLUMBIDÆ.

(94) *Streptopelia turtur.* *The Turtle Dove.*

Upward Migration.

- Apr. 30 Three at, or in the neighbourhood of, Sturminster Marshall.
May 2 E.H.C. notes—"I heard *Turtur turtur* in Branksome Park." (I think this is a bit doubtful. Since the above note was written I have discovered that some of the residents have established dovecotes of *Streptopelia risorius*, the Barbary Dove; these birds are in a semi-wild condition, and nest in the fir trees in the Branksome Park and Durrant Estate areas where Poole and Bournemouth join. I cannot distinguish the notes myself. The birds are increasing, so far as I can see, with some rapidity, and appear to be getting acclimatized and independent, though they are much persecuted by cats, dogs, and louts, all three of which are unduly prevalent in the district. W.P.C.)
May 20 At Berewood, three pairs seen. (W.P.C.)
May 28 Three seen drinking at the dewpond at Badbury. (E.H.C.)

Downward Migration.

- July 23 Two seen at Badbury Rings. (E.H.C.)

GENERAL NOTES ON BIRDS.

- Apr. 6 The dawn chorus had fairly started at 5 a.m. (E.S.R.)
- Mar. 24, 25, 26. Bright sunny days with cold North-West winds. No migrants seen.
- Mar. 31 A sunny day followed by still dark night.
- Apr. 1, 2, and 3 were followed by still nights. I had no opportunity to observe, and no further migrants were observed, although some may have come in.
- Apr. 8 A sunny day. No migrants noted on the Canford Estate, although the weather since the 3rd has presented opportunities.
- Apr. 9 Another lovely sunny day with very light N.W. wind failing considerably at sundown. Everything points to a migration on the night of April 8 and 9. At 10.30 p.m. on April 8th a small bird of light weight fluttered several times on my window pane which faces South. I could not see the bird, but, fearing it would wear itself out, I switched out my light. The bird would not enter, although my bedroom window is always open.
- Apr. 20 About this date there were hard winds from Eastward.
- Apr. 25, 26 There has been a further increase in the number of migrants during the two or three days or nights when the winds have been moderate and failing toward nightfall.
- Apr. 27, 28, 29 The main stream of migrants appears to have come into the country about these dates, and the whitethroats put in their appearance in full numbers. (E.H.C.)

REPTILIA.

Rana temporaria. *The Frog*. Spawn Jan. 26th. Dorchester. (J.R.)

THE APPEARANCES OF THE SCHEDULED INSECTS.

Name of Insect.	Earliest previously recorded date for Dorset.	Edmond. sham. E. F. L.	Poole and District. W. P. C. E. H. C.	Ansty. E. E. W.	Dorchester. J. R.	Weymouth. N. M. R.
(1) <i>Melolontha vulgaris</i> The Cockchafer	F L Apl. 2	May 16	*Mar. 14 (4)	..	..	..
(2) <i>Laupyrus noctigena</i> The glow worm	F L Mar. 17	May 21 (female)	..	..	..	..
(3) <i>Apis mellifica</i> The Honey Bee	F L Jan. 18 (h)	Jan. 9 (3)	..	Feb. 18	..	Mar. 18 (h)
(4) <i>Vespa vulgaris</i>	F L Dec. 28	Jan. 28 (female)	..	Mar. 18	Oct. 26 Apl. 18 (1)	Mar. 30 (2)
(5) <i>Pieris rapae</i> The Common Wasp	L F Dec. 17	..	..	..	Nov. 12	..
(6) <i>Enallagma carminum</i> The Small White Butterfly	F L Feb. 26	..	..	May. 16	Apl. 25	Apl. 21
(7) <i>Epinephelus furtina</i> The Orange Tip Butterfly	L F Oct. 8	May 1	..	..	Apl. 27	May 11
(8) <i>Pararge megara</i> The Meadow Brown	L F June 29	..	..	..	..	June 19
(9) <i>Gonepteryx rhamni</i> The Wall Butterfly	L F Apl. 4	..	..	..	..	..
(10) <i>Vanessa io</i> The Peacock ..	F L Apl. 8	..	May 20	..	..	..
(11) <i>Pyrausta atalanta</i> The Red Admiral	F L Feb. 11 (h) July 13 (fr.)	Ap. 9 (h)	Apl. 2 (h)	Mar. 19	Apl. 8 (h)	..
(12) <i>Pyrausta cardui</i> The Painted Lady	F L Dec. 27	..	..	..	..	..
(13) <i>Tyria jacobaeae</i> The Cinnabar	F L Feb. 11 (h) (fr.)	Apl. 25 (h)	Apl. 1 (h)	Apl. 1	Apl. 25 (h)	..
(14) <i>Abraxas grossulariata</i> The Currant Moth	F L Sept. 22	..	..	Mar. 31	..	..
	F L Mar. 3 (h) June 8 (fr.)	..	..	..	..	..
	F L Nov. 15	Oct. 7	Aug. 13 Oct. 8	..	Oct. 15	..
	F L Feb. 27 (h) June 8 (fr.)	..	..	..	..	..
	F L Nov. 4	..	Aug. 6	..	..	..
	F L May 11	..	..	..	..	..
	F L July 24	..	..	..	..	..
	F L June 1	..	July 22	..	..	July 22

(h) hibernated. (fr) fresh. Other terms and arrangement as in the Bird Schedule.

(1) I destroyed a large number of queen wasps. (2) Queen wasps very common in the spring. (3) Several hive bees visiting *lauristinus* bushes. (4) This specimen was dug up in Mrs. Hudson's garden at Parkstone. One of the elytra was damaged by the gardener. The insect was otherwise perfect and fully mature. W. P. C.

*INSECTA

LEPIDOPTERA

PAPILIONIDAE

PIERINAE

(1) *Pieris brassicæ*. *The Large White*.

Apr. 1 Ansty, E.E.W.

Apr. 24 Weymouth (N.M.R.)

May 5 Poole.

May 19 The heat of the preceding few days had brought out a great number. (W.P.C.)

(2) *Pieris rapæ*. *The Small White*.

Apr. 25 One at Poole.

May 5 Out in full force at Poole and very abundant on 7 May.

May 19 The heat of the last few days had brought out a great profusion. (W.P.C.)

(3) *Pieris napi*. *The Green-Veined White*.

May 21 In evidence at Canford. (W.P.C.)

(4) *Euchloë cardamines*. *The Orange-Tip*.

May 19 A single male at Poole.

May 20 Abundant at Bere Wood.

June 17 Was very worn at Bere Wood. (W.P.C.)

(5) *Gonepteryx rhamni*. *The Brimstone*.

Apr. 2 Six hibernated males—Higher Lytchett.

Apr. 9 Four at Canford. (W.P.C.)

* Nomenclature, R. South, *Butterflies and Moths of British Isles*. I do not, by adopting this, imply that I agree with its entirety, as I do not. I have added the English names, as I find some people like to have them, though the names are in many cases very absurd.—
ED. PH. NOTES.

NYMPHALIDAE.

NYMPHALINAE.

(6) *Vanessa urticæ*. *The Small Tortoiseshell.*

- Apr. 1 One at Broadstone (E.H.C.)
- Apr. 2 Six at Higher Lytehett.
- Apr. 9 One at Canford, (W.P.C.)

(7) *Vanessa io*. *The Peacock.*

- Apr. 1 One at Higher Lytehett.
- Apr. 9 Four at Canford.
- Aug. 5 At Mupe Bay.
- Aug. 27 At Canford Bottom. (W.P.C.)

(8) *Pyrameis cardui*. *The Painted Lady.*

- Aug. 6 A single specimen at Mupe Bay. (W.P.C.)

(9) *Pyrameis atalanta*. *The Red Admiral.*

- Aug. 13 At Swanage.
- Oct. 8 Two flying weakly at Canford Bottom. (W.P.C.)

(10) *Argynnis aglaia*. *The Dark Green Fritillary.*

- July 31 This insect was very abundant at Arish Mell throughout the first two weeks of August. (W.P.C.)

(11) *Argynnis euphrosyne*. *The Pearl Bordered Fritillary.*

- May 20 Abundant at Berewood.
- May 21 Abundant at Canford, where I procured a nicely banded specimen.
- June 17 Was worn to a shadow at Bere Wood. (W.P.C.)

SATYRINAE.

(12) *Satyrus semele*. *The Grayling.*

- July 31 This insect was extremely abundant at Arish Mell. (W.P.C.)

(13) *Pararge megaera*. *The Wall Brown*.

May 20 Out at Swanage. (E.H.C.)

Aug. 5 Second brood at Mupe Bay. (W.P.C.)

(14) *Epinephele ianira*. *The Meadow Brown*.

July 8 Abundant by this date at Poole.

July 30 This insect was extremely abundant at Arish Mell, but was getting very worn.. I noticed that it and *Melanargia galatea* gradually travelled up the Downs as the sun sank and finally came to rest in quantities in a position where they could get the last rays of the setting sun. (W.P.C.)

(15) *Coenonympha pamphilus*. *The Small Heath*.

May 21 A single specimen at Canford, rather unusually early.

June 17 Appeared to be just emerging at Bere Wood on this date.

July 9 The first brood was in full force at Poole, and was particularly fine and well marked. (W.P.C.)

LYCAENIDAE.

LYCAENINAE.

(16) *Callophrys rubi*. *The Green Hairstreak*.

May 20 A single worn specimen at Canford.

June 11 Fairly abundant at Canford Bottom, but getting over.

June 17 Abundant at Bere Wood, but worn. (W.P.C.)

(17) *Chrysophanus phloeas*. *The Small Copper*.

May 21 At Canford.

July 31 The second brood was fairly in evidence at Arish Mell, and on 2 August I obtained a specimen which was strongly inclined to *ab. schmidtii*. (W.P.C.)

(18) *Lycaena argus* (aegon). *The Silver Studded Blue.*

July 9. By this date this insect was abundant at Poole.
(W.P.C.)

(19) *Lycaena astrarche*. *The Brown Argus.*

July 31 and onwards. The second brood of this insect was
not uncommon at Arish Mell, but was very
small in size. (W.P.C.)

(20) *Lycaena icarus*. *The Common Blue.*

June 10 Out on the Down at Arish Mell.

July 31 Second brood was not uncommon at the same
place and shewing a strong percentage of ab.
caerulea. (W.P.C.)

(21) *Lycaena corydon*. *The Chalk Hill Blue.*

July 30 At Arish Mell the species was very scarce, only
three seen.

Aug. 2 By this date, however, the numbers had in-
creased; but it was never really plentiful.
(W.P.C.)

(22) *Cyaniris argiolus*. *The Holly Blue.*

Apr. 25 One at Parkstone. (Mrs. E. Hudson.)

Apr. 28 Two at Poole.

Apr. 30 Two at Poole.

May 19 The heat of the preceding few days had brought
out a fair sprinkling.

May 20 One at Bere Wood.

May 21 Abundant at Canford. (W.P.C.)

LEMONIIDAE.

(23) *Nemeobius lucina*. *The Duke of Burgundy Fritillary.*

May 20 Out at Bere Wood. (W.P.C.)

HESPERIIDAE.

HESPERIINAE.

- (24) *Hesperia malvae*. *The Grizzled Skipper*.

May 21 Abundant at Canford. (W.P.C.)

- (25) *Thanaos tages*. *The Dingy Skipper*.

May 20 Out at Bere Wood. (W.P.C.)

May 21 Abundant at Canford. (W.P.C.)

- (26) *Adopaea actacon*. *The Lulworth Skipper*.

July 31 This insect was well represented at Arish Mell
and at Mupe Bay. (W.P.C.)

- (27) *Augiades sylvanus*. *The Large Skipper*.

June 25 At Canford. (W.P.C.)

SPHINGIDAE.

- (28) *Smerinthus ocellatus*. *The Eyed Hawk Moth*.

July 7 I have been breeding this insect. It seems to be
a very stupid larva. It will starve in the
vicinity of fresh food because it is too sluggish
to crawl off the dead food to the new. If at
all crowded it tends to cannibalism as well.

Sep. 1 I obtained a single larva at Poole feeding on
golden willow. The interest lies in the colour,
which was a very vivid semi-translucent golden
green, only a trifle greener than the stems of the
plant, and afforded a marked contrast to a
larva found the following day at Canford Bottom
on a deep green sallow which was nearly mala-
chite green and very solid looking indeed.

- Sep. 3 A single specimen emerged in my breeding cage at Poole, constituting a second brood, a most unusual occurrence with the species. (W.P.C.)

NOTODONTIDAE.

- (29) *Cerura furcula*. *The Sallow Kitten*.

Sep. 2 A single larva at Canford Bottom. (W.P.C.)

- (30) *Dicranura vinula*. *The Puss Moth*.

Aug. 13 A half-fed larva at Swanage. (W.P.C.)

- (31) *Stauropus fagi*. *The Lobster Moth*.

Sep. 2 One larva.

Sep. 3 Two larvae at Canford Bottom, by E.H.C.
This confirms, for the first time that I am aware of, Seager's century-old record given in C. W. Dale's *Lepidoptera of Dorset*. (W.P.C.)

- (32) *Notodonta ziczac*. *The Pebble Prominent*.

June 25 A larva at Canford. (W.P.C.)

Aug. 20 A most extraordinary larva at Swanage. It was feeding on *Populus balsamifera* in immediate juxtaposition to a tarred post, one might almost say "in contact to" a tarred post, and the colour is so extraordinary that one feels tempted to describe it as black. However, there was a slight admixture of orange, rose, and very dark green, but the general effect was black. I have figured and photographed the larva.

- (33) *Lophopteryx camelina*. *The Coxcomb Prominent*.

Sep. 2 In Canford Bottom these larvae were nearly full fed by this date, and were fairly abundant.

(34) *Pygaera pigra*. *The Small Chocolate Tip.*

Sep. 2 About 45 larvae at Canford Bottom ; but they are much subject to the attacks of a dipterous parasite. (W.P.C.)

THYATIRIDAE.

(35) *Palimpsestis duplaris*. *The Lesser Satin Moth.*

Sep. 30 A single larva from birch at Canford Bottom. (W.P.C.)

(36) *Polyploca flavicornis*. *The Yellow Horned.*

June 25 Six larvae at Canford and

July 9 Two further larvae at Canford Bottom.
The first time I have seen this insect in our district. (W.P.C.)

LYMANTRIIDAE.

(37) *Dasychira pudibunda*. *The Pale Tussock.*

Sep. 30 Larvae abundant in Canford Bottom on this date. (W.P.C.)

(38) *Porthesia similis*. *The Yellow Tail.*

A female bred with black spot in each forewing. Corfe Castle. (Dru Drury). (An apparently unnamed aberration. W.P.C.)

(39) *Lymantria monacha*. *The Black Arches.*

May 7 A single empty pupa found by E.H.C. at Canford Bottom—a new locality for this insect to us. (W.P.C.)

LASIOCAMPIDAE.

(40) *Macrothylacia rubi*. *The Fox Moth.*

May 13 On the wing at Canford Bottom. (W.P.C.)

(41) *Gastropacha quercifolia*. *The Lappet*.

Sep. 2 Larva at Canford Bottom on sallow. This is first I have obtained locally. (W.P.C.)

SATURNIIDAE.

(42) *Saturnia pavonia*. *The Emperor Moth*.

Apr. 9 One male at Canford seen dodging about the heath and on

May 7 A further specimen seen on Canford Heath. (W.P.C.)

DREPANIDAE.

(43) *Drepana falcatoria*. *The Pebble Hook Tip*.

May 14 One at Canford Bottom. (E.H.C.)

May 21 One at Canford, and full-fed larvæ on 3 September at Canford Bottom. (W.P.C.)

(44) *Drepana lacertinaria*. *The Scalloped Hook Tip*.

May 14 One at Canford Bottom. (E.H.C.)

May 21 One at Canford. (W.P.C.)

June 25 Larvæ were in evidence at Canford (W.P.C.) and on 8 October I found a larva sitting on the petiole of a birch leaf which it had evidently consumed. It was most difficult to see, and looked precisely like a dead and crumpled leaf. (E.H.C.)

(45) *Cilix glaucata*. *The Chinese Character*.

Aug. 3 At Arish Mell one specimen, and larvæ at Canford Bottom 30 Sep. (W.P.C.)

CHLEOPHORIDAE.

- (46) *Hylophila prasinana*. *Green Silver Lines*.

June 11 A single female at Canford Bottom ; and 30
September and 1 October larvæ were not
uncommon there. (W.P.C.)

- (47) ARCTIADAE.

ARCTIANAE.

Diaphora mendica. *The Muslin*.

May 14 A female at Canford Bottom. (W.P.C.)

- (48) *Diacrisia sannio*. *The Clouded Buff*.

June 24 One male ; 15 July, two males at Canford
Bottom. (W.P.C.)

- (49) *Coscinia cribraria* (bivittata). *The Speckled Footman*.

July 22 At Canford Bottom one specimen. (E.H.D.)

- (50) *Hipocrita jacobaeae*. *The Cinnabar*.

Aug. 13 The larva was full fed at Swanage. (W.P.C.)

LITHOSIINAE.

- (51) *Atolmis rubicollis*. *The Red-necked Footman*.

On 30 Sep. and 1 Oct. we obtained about a
dozen of these larvæ in Canford Bottom.
Years ago they were alleged by E. N. Blanchard
to be common in this district. This is the
first time we have found them at all. (W.P.C.
and E.H.C.)

NOCTUIDAE.

ACRONYCTINAE.

- (52) *Bryophila perla*. *The Marble Beauty*.

Aug. 13 Three seen at Swanage. This insect was not
uncommon during the year. (W.P.C.)

TRIFINAE.

- (53) *Noctua castanea*, var. *neglecta*. *Grey Rustic*.

Sep. 2 One at Canford Bottom at rest amongst heather stems. (W.P.C.)

- (54) *Miana bicoloria*. *The Cloaked Minor*.

July 30 Extremely abundant in clover fields in the evening at Arish Mell. (W.P.C.)

- (55) *Mormo maura*. *The Old Lady*.

July 28 A single specimen at Poole. (E.H.C.)

- (56) *Panolis grisco-variegata*. *The Pine Beauty*.

June 25 The larvæ were abundant at Canford. (W.P.C.)

- (57) *Graptolitha ornithopus*. *Grey Shoulder Knot*.

Apr. 8 One sitting head up on a fir tree at Canford. (W.P.C.)

- (58) *Xylocampa areola*. *The Early Grey*.

Apr. 8 One at Canford. (W.P.C.)

- (59) *Heliothis dipsacea*. *The Marbled Clover*.

July 16 At Canford Bottom by W.P.C., and on

July 22 Again observed by E.H.C.

BREPHIDAE.

- (60) *Brephos parthenias*. *The Orange Underwing*.

Apr. 9 Four at Dunycats Hill, and one at Cockwood, Canford. The flight of this insect is curiously bewildering ; it has a speed nearly equal to that of *Colias edusa* but has the habit of tower-

ing directly it is alarmed, which is pretty frequently, and it has something of the erratic flight of *Saturnia pavonia*. It is a tiresome insect to catch and spends most of the afternoon gambolling round the tops of the birch trees. It certainly feeds most freely in the sunny patches, between 10 and 12, but at 4.30 one was feeding at the foot of Dunyeats Hill, and one's best chance is undoubtedly a sunny morning and a nice (not too high) patch of sallow in full bloom. It seems, however, only to be the males which come to the sallow bloom. (For an account of an attack by *Phylloscopus trochilus* (The Willow Warbler) on the insect see The Coloration Problems, mihi, *Ent. Rec. and Journal of Variation*, Vol. XXXIX, p. 56). (W.P.C.)

GEOMETRIDAE.

GEOMETRINAE.

- (61) *Geometra papilionaria*. *The Large Emerald*.

June 25 A single larva at Canford, which emerged
28 July. (W.P.C.)

ACIDALIINAE.

- (62) *Hyria muricata*. *Purple Bordered Gold*.

July 28 One by E.H.C. at Canford Bottom, a new locality for this insect. (W.P.C.)

- (63) *Acidalia virgularia*. *The Small Dusky Wave*.

June 24 One at Poole. (W.P.C.)

- (64) *Ephyra porata*. *False Mocha*.

July 2 A single specimen at Canford Bottom, whilst the larva was abundant there on 30th September and practically full fed. (W.P.C.)

- (65) *Ephyra linearia*. *Clay Triple Lines*.

Sep. 2 Larvæ obtained off beech at Canford Bottom.
(W.P.C.)

HYDRIOMENIDAE.

- (66) *Lobophora carpinata*. *The Early Tooth-striped*.

Apr. 9 One at rest on a sallow bush low down at
Canford. (E.H.C.)

- (67) *Lobophora halterata*. *The Seraphim*.

May 21 At Canford a single specimen sitting on a
birch, head up with wings well back. (W.P.C.)

- (68) *Lygris testata*. *The Chevron*.

Sep. 2 One at Canford Bottom at rest with wings
flat, on the underside of a gorse bush branch,
but very low down. (W.P.C.)

- (69) *Thera obeliscata*. *Grey Pine Carpet*.

A third brood was out at Poole throughout
late September and October. (W.P.C.)

- (70) *Thera variata*. *Pine Carpet*.

May 13 One seen at Canford Bottom. (W.P.C.)

- (71) *Coremia unidentaria*. *Dark-barred Twin-spot Carpet*.

May 21 At Canford. (W.P.C.)

- (72) *Coremia ferrugata*. *Red Twin-spot Carpet*.

May 20 Out at Bere Wood. (W.P.C.)

- (73) *Asthena luteata*. *Small Yellow Wave*.

June 11 At Bere Wood. (E.H.C.)

- (74) *Asthena testaceata*. *Waved Carpet*.

Sep. 30 A single larva obtained at Canford Bottom. I am quite satisfied as to its identity. (W.P.C.)

- (75) *Eupithecia nanata*. *Narrow-winged Pug*.

May 13 Out at Canford Bottom. (W.P.C.)

- (76) *Eupithecia abbreviata*. *Brindled Pug*.

Apr. 15 One at Broadstone. (W.P.C.)

- (77) *Gymnoscelis pumilata*. *Double-striped Pug*.

A third brood was out at Poole by Aug. 28.

- (78) *Chloroclystis rectangulata*. *Green Pug*.

June 11 At Poole E.H.C. (a new locality to me. W.P.C.)

BOARMIINAE.

- (79) *Ellopiia prosapiaria*. *Barred Red*.

June 25 A single specimen from Canford. (W.P.C.)

- (80) *Metrocampa margaritaria*. *The Light Emerald*.

July 2 A single specimen at rest in the grass at Canford Bottom. (W.P.C.)

- (81) *Ennomos alniaria*. *Canary-shouldered Thorn*.

This insect was out by September 3 at Poole. (W.P.C.)

- (82) *Selenia bilunaria*. *Early Thorn*.

Sep. 30 This larva was full fed. (W.P.C.)

- (83) *Selenia tetralunaria*. *Purple Thorn*.

By 30 September this larva was full fed at Canford Bottom. (W.P.C.)

(84) *Hybernia leucophaearia*. *The Spring Usher*.

This insect was out in Bere Wood on 22 January. (W.P.C.)

(85) *Boarmia cinetaria*. *Ringed Carpet*.

May 7 Out in full force at Canford Bottom, and still much in evidence there on 14 May. (W.P.C.)

(86) *Tephrosia bistortata*. *The Engrailed*.

Apr. 30 Two at Canford. (E.H.C.)

May 7 One at Canford Bottom, and on 13 and 14 May numerous there. (W.P.C.)

(87) *Tephrosia luridata*. *Brindled White Spot*.

July 2 One at Canford Bottom with a piece bitten out of its wing (?) by a bird. (W.P.C.)

(88) *Tephrosia punctularia*. *Grey Birch*.

May 13 Four seen at Canford Bottom, on

May 14 It was numerous there, and on

May 21 Was observed at Canford sitting sideways with wings spread. (W.P.C.)

(89) *Ematurga atomaria*. *The Common Heath*.

May 7 Two at Canford Bottom, and on

May 14 One at Canford. (W.P.C.)

(90) *Bupalus piniaria*. *Bordered White*.

June 11 Abundant and wild, Canford Bottom. (W.P.C.)

June 25 One white male and one dark female, both Northern forms, obtained at Canford. (W.P.C.)
This is interesting in view of the inclement spring. The larva was full fed by 30 September,

and on 8 October E.H.C. and W.P.C. had a try to see how many could be found on a fir bough in 10 minutes. W.P.C. found one and E.H.C. none, but at the first blow of the beating stick 8 fell into the tray, a very pretty exemplification of the perfection of the longitudinal striping for hiding the larva among pine needles. (W.P.C.)

(91) *Lozogramma petraria*. *Brown Silver Line*.

On 20 May out at Bere Wood, and on 21 May at Canford, and was still abundant at Bere Wood on 17 June. (W.P.C.)

(92) *Scodiona fagaria*. *Grey Scalloped Bar*.

May 15 A single female at rest on a grey patch of sand at Canford Bottom. (E.H.C. thinks not a selected resting place ; but it was a very good one for hiding purposes. W.P.C.)

ZYGAENIDAE.

(93) *Zygaena filipendulae*. *Six-spot Burnet*.

Aug. 2 This insect was present in swarms at Arish Mell ; but though I netted and examined a great many, the only aberration noticed was a single specimen with confluent spots.

COCHLIDIDAE.

(94) *Cochlidion limacodes*. *The Festoon*.

Oct. 8 At Canford Bottom. E.H.C. beat a single full fed larva from oak. Unfortunately, as is not unusual, a blow strong enough to dislodge the larva, which holds remarkably tightly, resulted

in injury sufficient to cause death; but the record is interesting, as the locality is a new one to me. (W.P.C.)

PYRALIDAE.

CRAMBINAE.

(95) *Crambus pascuellus*.

June 25 At Canford. (W.P.C.)

PYRAUSTINAE.

(96) *Pyrausta purpuralis*.

May 21 First brood out at Canford.

Aug. 4 On this date the second brood was out at Arish Mell. (W.P.C.)

TORTRICIDAE.

TORTRICINAE.

(97) *Tortrix viridana*.

July 2 More than usually abundant at Canford.
(W.P.C.)

(98) *Cheimatophila hyemana*.

Mar. 9 In fair numbers at Canford.

Apr. 8 Still abundant there. (W.P.C.)

OLETHREUTINAE.

(99) *Retinia pinicolana*.

June 25 At Canford. (W.P.C.).

HYMENOPTERA.

Vespa vulgaris.

We have had fewer wasps about than usual this year ; and though I understand that is rather generally the case, it is here partly attributable to my school children having brought in 1,092 queens in the late spring, in response to a small reward. I have done this for two years now. (E.F.L.)

The Common Wasp was unusually abundant. Mr. T. J. Meaby, of Canford, wrote me that by May 31 he had paid for 6,317 queens brought into the Canford Estate Office—while my notes are as follows :—

- | | |
|---------|---|
| May 14 | An immense number in the Poole District. |
| May 21 | An immense number in the Canford District.
They bid fair to be a perfect pest. |
| June 17 | But were very reduced in number in Bere Wood
on this date ; probably due to the frost on
3 June. (W.P.C.) |

THYSANURA AND ORTHOPTERA.

In response to a request for records on the Orders that Mr. Haines is interested in, he sent me the following further notes, which are reproduced verbatim, and mark a welcome departure in our Insect Notes, which in the past have been almost exclusively confined to lepidoptera.

Thysanura and Orthoptera in Dorset.

In case annotated records of certain species of the less known orders of Insecta, occurring in Dorset, might be of some interest, as yielding facts for determining distribution, I have written the present short lists. I hope to improve upon both their form and matter after the next year or two.

The idea, now hastily acted upon, finds me with only inadequate data to begin with ; yet with, at least, the intention of trying to make such data of more value in the future, when I hope that other Orders may be listed. I confine myself to species noted by me in Winfrith and its neighbourhood.

COLLEMBOLA : *Symnethurus fuscus*, De G., moist places in woods ; *S. luteus*, Lub., grassy places ; *S. bourletii*, Gerv., grassy places ; *Orchesella cincta*, L., amongst herbage ; *O. villosa*, Geof. ; *Tomocerus longicornis*, Mull., amongst herbage ; *T. plumbeus*, L. ; *T. niger*, Bour., under wood ; *Lepidocyrtus lignorum*, Fabr. ; *Degeeria nivalis*, L. ; *Isotoma palustris*, Bour. ; *Podura aquatica*, L., on pools.

THYSANURA : *Lepisma saccharina*, L. ; *Machilis polypoda*, L. ; *M. maritima*, Leach, on the coast.

ORTHOPTERA : *Forficula auricularia*, L. ; *Ectobia panzeri*, Steph., very common on the heaths and near the coast ; *E. livida*, Fabr., another common heathland and coast species ; *Gryllotalpa gryllotalpa*, L., seems not uncommon, at least locally, in the county. I know that it has occurred among potatoes, at Moreton, and it has been found in autumn, in both the nymph and perfect state, among horse manure, in my garden, at Winfrith, evidently hibernating, in successive years. *Gryllus domesticus*, L., appears to have become rarer, and has disappeared from our house, where some years ago it occurred. *G. campestris* does not seem to occur at Winfrith, nor have I met *Nemobius sylvestris*, F., in this neighbourhood. *Leptophyes punctatissima*, B. d'A., in the woods ; *Xiphidium dorsale*, Latr., Arne and Bloxworth ; *Locusta viridissima*, L., very common at Ringstead, among coarse vegetation and along this coast. I have not myself met with it inland. *Olynthoscelis cinereus*, L., common in bushes. *Platycelis grisea*, Fab., common on the coast, both on chalk and heathland. *P. brachypterus*, L., common in various

types of locality. *Gomphocerus rufus*, L. ; *G. maculatus*, Thunb., common on the heaths. *Stenobothrus lineatus*, Panz. ; *S. viridulus*, L., common everywhere ; *S. rufipes*, Zett. ; *S. bicolor*, Charp., abundant ; *S. elegans*, Charp. ; *S. parallelus*, Zell., very common ; *Tettix subulatus*, L., common on heaths and near marshes ; *T. bipunctatus*, L., very common on the heaths, practically throughout the year. The introduced *Blatta orientalis*, L., is, of course, widely common. I have had one of the green *Panchlora*, either *P. exoleta*, Klog., or *P. viridis*, L., sent to me from Sherborne, obviously introduced with bananas.

Although I have paid a proportional amount of attention to the following small Orders, I have so few species to record that I had hesitated to "list" them until I had worked them more.

PLECOPTERA : *Dictyopteryx mortoni*, Klap., common on the swifter streams. *Chloroperla grammatica*, Poda, abundant on the rivers. *Nemoura cinerea*, Oliv., Morden ; *N. variegata*, Oliv., abundant on our streams and rivers ; *N. marginata*, Pict., Morden ; *Leuctra geniculata*, Steph., common, Moreton ; *L. klapateki*, Kempny, in autumn, Dewlish ; *L. albida*, Kempny, September, Moreton ; *L. hippopus*, Kempny, very common, Tadnoll and Moreton.

PSOCOPTERA : *Amphigerontia bifasciata*, Latr. ; *Psocus quadrimaculatus*, Latr. ; *Stenopsocus immaculatus*, Steph. ; *Stenopsocus stigmaticus*, Imhoff ; *Graphopsocus cruciatus*, L., very common ; *Mesopsocus unipunctatus*, Mull., very common ; *Philotarus flaviceps*, Steph. ; *Elpsocus hyalinus*, Steph., Holme ; *E. abietis*, Kolbe, common ; *Peripsocus phaeopterus*, Steph. ; *Caccilius flavidus*, Steph., common ; *Atropos pulsatoria*, L., common in the cupboards, etc., of my room.

EPHEMEROPTERA : *Ephemera danca*, Mull., very common on the Frome ; *Potamanthus luteus*, L., very common on the Frome ; *Leptophlebia marginata*, L., common ; *L.*

submarginata, Steph., very common; *L. cincta*, Retz.; *L. meyeri*, Eaton; *Ephemerella ignita*, Poda, common; *Baetis binoculatus*, L., abundant; *B. scambus*, Eaton, common; *B. vernus*, Curt., abundant; *B. rhodani*, Pict., very common; *B. atrebatinus*, Eaton; *B. pumilus*, Burm., common; *B. niger*, L.; *C. simile*, Eaton.

ODONATA: *Sympetrum striolatum*, Charp., abundant; *S. fonscolombii*, de Selys, occurred on two heathland ponds in the neighbourhood, occasionally in numbers, in 1912, 1913, and 1914, but I have not seen it since, in either place. *S. scoticum*, Don., abundant; *Libellula depressa*, Linn., common; *L. quadrimaculata*, L., very common; *L. fulva*, Mull., common in places; *Orthetrum carrulesceus*, Fab., very common; *O. cancellatum*, L., common; *Cordulia aenea*, L., common in places; *Cordulegaster annulatus*, Latr., very common; *Anax imperator*, Leach, common, quite abundant on one or two ponds; *Brachytron pratense*, Mull., rather common; *Aeschna mixta*, Latr., occasionally seen, but difficult to catch; *A. grandis*, L., rather common; *Calopteryx splendens*, Harris, very common on the Frome. I have not seen *C. virgo*, L., near here. It is, doubtless, abundant in other parts of the county. *Lestes sponsa*, Hans., common; *Pyrrhosoma nymphula*, Sulz., abundant; *P. tenellum*, Vill., common; *Ischnura elegans*, Van der L., very common; *Agrion puella*, L., very common; *A. mercuriola*, Charp., has occurred to me, once, in numbers, at one spot; *Enallagma cyathigerum*, Charp., abundant.

NEUROPTERA: *Sialis lutaria*, L., abundant; *Raphidia maculicollis*, Steph.; *Hemerobius micans*, Oliv.; *H. humuli*, L., common; *H. lutescens*, Fab.; *H. subnebulosus*, Steph., common; *H. stigma*, Steph.; *Micromus paganus*, L.; *Chrysopa flava*, Scop.; *C. alba*, L., common; *C. vulgaris*, Sch., common; *C. prasina*, Ramb.; *C. abbreviata*, Curt.; *C. phyllochroma*, Wism; *C. perla*, L., abundant; *Panorpa communis*, L., very common; *P. germanica*, L., very common.

GENERAL REMARKS.

The Rev. J. Ridley sends the following tabular statement as to weather conditions :—

	Thermometer.			Barometer.		Average.	Snow.		Thunder.
	Max.	Min.	Rain.	Max.	Min.				
January	54°0	29°0	1'16	30'25	29°26	29°58	26th	27th	.. ..
February	50°0	21°0	4'68	30'12	28°35	29°20	..	..	.. ..
March	53°0	22°0	3'22	30'50	28°50	29°08	7th	8th	27th ..
April	69°5	26°0	1'14	30'15	28°97	29°62	..	..	28th ..
May	72°0	32°0	1'58	29'74	29°00	29°50	..	..	25th 29th
June	74°0	33°0	3'38	29°90	29°05	29°63	..	..	27th ..
July	84°5	41°5	1'39	30'50	29°20	29°71	..	..	23rd 27th
August	84°5	45°5	4'63	30'50	29°33	29°70	..	..	15th ..
September	72°5	30°5	3'45	30°09	29°25	29°72	..	..	.. ..
October	68°0	30°5	6'01	29°89	28°77	29°23	..	..	27th 31st
November	56°5	22°0	5'35	30°05	28°25	29°00	27th	..	5th 6th
December	39°7	27°4	8'76	29°80	28°34	28°93	..	..	10th ..
Annual	84°5	21°0	44'75	30°5	28°25	29°4	..	..	.. ..

Mr. E. S. Rodd remarks.—January very remarkably mild. Feb. 24, heavy and deep fall of snow, 18 inches deep over the ground, 3 or 4 feet in the drifts.

1916 began with a great S.W. gale of wind, which blew down many trees, including a *Picea Princeps* in my garden. Feb. 20, heavy snow and 12 degrees of frost ; a lovely May hawthorn very full of blossom.

After a cold wet time of many weeks the weather changed on July 14 to really hot fine summer weather. Sunday, August 6, was the hottest and most sultry day ; Monday, August 7, being 22 degrees colder.

There was some very cold weather with hard frosts in November and in December. The thermometer twice registered 18 degrees of frost.

The year ended in mild fine weather.

E. E. W., Ansty—

Snow fell February 25, 26, and 27, blocking the roads on Hilton Hill and Bulbarrow for a fortnight.

E. H. C. notes—

February 21 to March 1. This was a week of intermittent snow storms and sleet, frost of varying intensity at night, and low temperature daily.

During the last week in April, Oak and Beech burst into leaves, and the Birch greenery was then well out.

April 28. A very hot day. A bright cloudless morning in Poole that gave place to a heavy overcast afternoon with thick haze obscuring the distance. As the afternoon advanced, the clouds became heavier and assumed the rosy glow that denotes that nature is getting ready to adjust "her voltage account." About 4.30 I saw a heavy flash over Lytchett Beacon, and shortly afterwards noticed smoke rising from the heather, and a few minutes after the heath was well alight. During the next half hour the storm was very general over Poole and Parkstone and rain fell heavily. The heath fire was extinguished by the rain. I noted this unusual cause of heath fire, as I am convinced by long observation that 90 per cent. of the destructive fires that consume thousands of pounds (sterling) worth of potential and actual timber are the result of arson.

22 May. An exceedingly fierce heath fire swept from Hatch Pond up Haymoor Bottom as far as the motor road, destroying a great many young fir trees and birches, and an untold amount of wild life. Just as E.H.C. is convinced ("In 1918 I obtained evidence of this as to this fire. W.P.C.") that the Easter fire was started by inhabitants of Newtown, he is equally convinced that this fire was started by someone residing in the Waterloo district. Our united experience and observation is that heath fires are due to the following causes, in order of importance :—

- (i.) The practice of supplying fire-beaters with beer *ad lib.*
- (ii.) Payment for services rendered in stopping fires.
- (iii.) Allowing cottagers and others to haek down dead trees killed by fire and use them as firewood.

- (iv.) Permitting cottagers to graze donkeys, cows, and decrepit horses on the sparse fresh grass which grows after a fire.
- (v.) Sundry causes, mischief, smoking, sparks from engines, etc.

The causes (i.) to (iv.) probably cover 95 per cent. of the fires, since the very people who start the fires get the beer, the money, and the benefits of (iii.) and (iv.). It pays them, therefore, to start fires. If fire beating were reserved as an extra and compulsory rent service, and absence from a fire a matter for fine or forfeiture of tenancy by the terms of the tenancy, the tenants near heaths would see to it that fires did not occur, which would benefit alike landlord and tenant, nation and individual, nature-lover and sportsman. After the 22 May fire we found ten to twelve pheasants' nests and nearly thirty ducks' nests destroyed in an area of some twenty acres, besides numberless small birds' nests.

That these suspicions are well grounded is borne out by the fact that on one estate in East Dorset fires occurred on three successive Sunday afternoons, but did not reach such inconvenient proportions as to last beyond "tea time."

With regard to those fires, W.P.C. was told the following year by a credible person that the three fires were deliberately started by certain persons for the sake of the beer given out. Accustomed to sift evidence, W.P.C., after submitting his informant to careful questioning, got "chapter and verse," and is quite satisfied that the statement is true.

TIDES, 1916.

On 4 and 5 November, 1916, at Poole we had one of the highest tides that can be remembered, accompanied by a destructive gale. Mr. H. W. Chislett (The Poole Harbour Master) very kindly made enquiries for me, but was not able to get very precise information, as the Harbour Board have no special provision for this class of work. He, however, tells me the following interesting facts :—

- (1) Direction of wind on 4 November, 5.30 p.m., S.E., shifting to S.W. about 12 a.m.
- (2) Maximum force 7.30 a.m., 5 November, not measured.
- (3) H.W. main tide 5.15 a.m. Second H.W. 8.45 a.m., but ran up until 9.30 a.m.
- (4) No half-ebb, tide simply continued to soak up.
- (5) Height of water $4\frac{1}{2}$ feet above ordinary springs.
- (6) No records are kept by the Board ; but from information Mr. Chislett could get he found there was a tide this height about 90 years ago and one 30 years ago two inches less.

Mr. Chislett adds :—" I am sorry that I cannot get anything really reliable ; but we are not fitted out with the proper appliances for such records, as other ports are."

This last I assume our Club will regard with some feeling of dismay—that the biggest commercial port and town in Dorset, and the second or third most important port on the South Coast, should be so indifferently governed that an important official like a Harbour Master is not officially supplied with necessary apparatus to enable him to carry out his duties. (W.P.C.)

Name of Plant. (10th edition of the London Catalogue.)	Previous earliest recorded date for Dorset. (1)	Edmond- sham. E. F. L.	Wimborne, J. M. J. F.	Canford, W. P. C. E. H. C.	Winfrith, F. H. H.	Ansty, E. E. W.	Pulham.	Weymouth, N. M. R.
(1) <i>Anemone nemorosa</i> L	Feb. 1	..	Apl. 7 (6)	..	March 4	March 19	..	April 2
(2) <i>Ranunculus Ficaria</i> L	Feb. 15	..	Jan. 14	Mar. 18	..	Jan. 15	Jan. 14	Jan. 29
(3) <i>Caltha palustris</i> L	Jan. 20	..	..	..	March 17	March 24	..	..
(4) <i>Cardamine pratensis</i> L	Feb. 10	..	..	..	..	..	..	..
(5) <i>Sisymbrium Alliaria</i> L	Feb. 8	Apl. 8	Mar. 11	..	April 4	April 13	..	April 30
(6) <i>Viola sylvestris</i> Kit	Jan. 1	..	..	..	March 15	Feb. 1	..	April 1
(7) <i>Stellaria Holostea</i> L	Jan. 26	Mar. 24	Mar. 11	Apl. 2	April 4	April 7	..	Mar. 18
(8) <i>Geranium</i> L	Jan. 1	..	May 2	..	May 8	May 3	..	Feb. 5
(9) <i>Æsculus</i> L	Mar. 6	May 3	..	April 2	..	April 4	April 11	May 2
(10) <i>Hippocastanum</i> L	Sept. 1	..	..	..	..	..	..	..
(11) <i>Prunus spinosa</i> L	Feb. 10	Apl. 27	Apl. 13	..	May 8	April 26	..	..
(12) <i>Rosa canina</i> L	Jan. 11	Mar. 21	..	Mar. 25	March 15	Jan. 30	April 6	Feb. 12
(13) <i>Crataegus</i> L	May 18	May 27	May 29	Apl. 2	June 1	Feb. 5	..	June 7
(14) <i>Oxyacantha</i> L	Feb. 20	..	..	..	..	..	..	..
(15) <i>Cornus sanguinea</i> L	Jan. 12	..	..	..	..	..	..	..
(16) <i>Sambucus nigra</i> L	Jan. 20	May 15	May 15	..	May 17	..	..	..
(17) <i>Dipsacus sylvestris</i> L	Jan. 29	..	..	..	..	..	..	..
(18) <i>Scabiosa Succisa</i> L	Apr. 1	Aug. 10	July 3	..	August 17	August 3	..	..

THE SCHEDULED PLANTS—(continued).

Name of Plant. (10th edition of the London Catalogue.)	Previous earliest recorded date for Dorset. (1)	Edmond- sham. E. F. L.	Wimborne. J. M. J. F.	Canford. W. P. C. E. H. C.	Winfrith. F. H. H.	Ansty. E. E. W.	Pulham.	Weymouth. N. M. R.
(19) <i>Achillea Millefolium</i> Yarrow	Jan. 1	June 19	June 1	July 9	June 23	June 24	..	July 11
(20) <i>Chrysanthemum</i> Leucanthemum	Jan. 23	May 20	May 2	..	May 19	May 22	..	May 30
(21) <i>Ox-eye daisy</i> Tussilago Farfara	July 7	..	..	..	..	..	..	..
(22) <i>Guicusa arvensis</i> Field Thistle	Jan. 25	Mar. 12	Feb. 14	Apr. 2	Mar. 15	Mar. 23	..	Mar. 4
(23) <i>Centaurea nigra</i> Knapweed	Jan. 12	June 25	May 29	..	May 19	May 30	..	July 11 (2)
(24) <i>Hieracium Pilosella</i> Mouse-ear	Apr. 25	June 5	May 29	..	June 17	June 19	..	July 5
(25) <i>Campanula</i> Hawkeed	July 10	May 21	May 29	..	May 10	May 18	..	..
(26) <i>Primula veris</i> Cowslip	Mar. 26	June 25	June 26	..	July 19	July 20	..	..
(27) <i>Calystegia sepium</i> Greater Bindweed	Feb. 11	Mar. 27	Apr. 25	Apr. 2	April 3	Mar. 29	Feb. 28	Mar. 18
(28) <i>Mentha aquatica</i> Water Mint	Jan. 12	..	..	..	..	..	..	..
(29) <i>Nepeta hederacea</i> Ground Ivy	May 20	July 6	..	..	July 8	July 4	..	July 14
(30) <i>Corylus Avellana</i> Hazel	..	July 31	July 20	..	Aug. 11	Aug. 3	..	..
(31) <i>Scilla nonscripta</i> Bluebell	Mar. 12	Mar. 6	..	Apr. 2	Mar. 30	Mar. 23	..	Mar. 18
	Jan. 1	Jan. 20	..	Apr. 8	Mar. 4	Jan. 18	..	Jan. 23
	Jan. 7	Apr. 6	Apr. 3	..	April 11	April 8	April 12	Apr. 30
	Feb. 23	..	..	..	..	..	..	..
	May 30	..	..	..	..	..	..	..

L. Leaf. I. Flower. F. Fruit.

The residue of the signs being as in the Bird Schedule.

(1) In cases where January 1st is given as the earliest date there are in some cases records of flowers, &c., in the preceding December, but I do not see how I could start a year earlier than January 1st. (2) Out earlier. (3) *Viburnum Lantana* in flower. April 30th, Weymouth. (N.M.R.) (4) This plant was in young fruit and had been in flower for two weeks or more. (5) Dog violet (*Viola Reichenbachiana*) reported for end of January from a bank where it grows in quantity, but no specimen brought in to me. (E. F. L.) (6) A specimen brought by school children, February 21st. (J. M. J. F.)

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